

1940

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Philadelphia College of Osteopathic Medicine

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COLLEGE OF OSTEOPATHY
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OF PHILADELPHIA



THE UNDERGRADUATE SCHOOL
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SCHOOL OF NURSING
OSTEOPATHIC HOSPITAL OF PHILADELPHIA

Forty-second Annual Announcement

1940—1941

~~357~~ 35705

ACADEMIC CALENDAR, 1939-40

1940

SEPTEMBER 13TH AND 14TH,

THURSDAY AND FRIDAY.....Examinations for Conditioned Students.

SEPTEMBER 16TH, MONDAY....Registration Day.

SEPTEMBER 17TH, TUESDAY....Academic Year Begins. Introductory Exercises, 9:00 A. M. Auditorium.

NOVEMBER 26TH, WEDNESDAY..Thanksgiving Recess Begins, 12 M.

DECEMBER 2ND, MONDAY.....Classes Resumed, 8:00 A. M.

DECEMBER 21ST, SATURDAY....Christmas Recess Begins, 12 M.

1941

JANUARY 6TH, MONDAY.....College Work Resumed, 8:00 A. M.

JANUARY 27TH, MONDAY.....Second Semester Begins, 8:00 A. M.

FEBRUARY 22ND, SATURDAY....Founders' Day Exercises. College Auditorium.

APRIL 10TH, THURSDAY.....Easter Recess Begins, 5:00 P. M.

APRIL 15TH, TUESDAY.....College Work Resumed, 8:00 A. M.

MAY 19TH, MONDAY.....Final Examinations Begin.

MAY 31ST, SATURDAY.....Annual Commencement.

SEPTEMBER 16TH, TUESDAY....Forty-second Annual Session Begins.

CONTENTS

	PAGE
ADMISSION, REQUIREMENTS FOR.....	42
ADMISSION TO ADVANCED STANDING, REQUIREMENTS FOR.....	45
ALUMNI ASSOCIATION.....	109
BOARD OF DIRECTORS, HOSPITAL.....	6
BOARD OF TRUSTEES, COLLEGE.....	7
CALENDAR, ACADEMIC.....	2
CLASSES, SCHEDULES OF.....	95
CURRICULUM, SYNOPSIS OF THE.....	55
DEPARTMENTS, SUMMARY OF.....	91
DEVISE AND BEQUEST, FORM OF.....	126
ENDOWMENT AND ANNUAL GIVING FUNDS.....	28
EQUIPMENT AND FACILITIES.....	25
FACULTY.....	9
FEES.....	35
GRADUATE SCHOOL.....	114-20
GRADUATES, 1939.....	100
GRADUATES, REQUIREMENTS FOR.....	46
HARVEY SCHOOL OF ANATOMY.....	26
HEALTH SERVICE.....	34
HISTORICAL STATEMENT.....	22
HOURS, REQUIRED, TABLE OF.....	54
INFORMATION, MISCELLANEOUS.....	44
INSTRUCTION, DEPARTMENTS OF:	
Anatomy.....	58
Bacteriology and Preventive Medicine.....	68
Chemistry and Toxicology.....	63
Clinical Osteopathy.....	87
Economics.....	90
Gynecology.....	78
Military Medicine.....	90
Neurology and Psychiatry.....	84
Obstetrics.....	82
Ophthalmology and Otolaryngology.....	80
Osteopathic Principles and Research.....	70
Osteopathic Therapeutics.....	71
Pathology.....	65
Pediatrics.....	86
Physiology and Pharmacology.....	61
Practice of Osteopathy.....	73
Radiology.....	84
Surgery.....	76
Urology.....	79
INSTRUCTION, GENERAL PLAN OF.....	52
INTERNSHIP, HOSPITAL.....	27
LIBRARY.....	26

MUSEUM	26
NURSES, STUDENT, REGISTER OF	124
NURSING, SCHOOL OF	122
PRACTICE, REQUIREMENTS FOR	47
PRIZES	49
PROMOTION, REQUIREMENTS FOR	46
PUBLICATIONS	109
REGISTRATION	32
SCHOLARSHIPS	33
STAFF, CLINICAL	16
STAFF, HOSPITAL	14
STUDENT ACTIVITIES	108
STUDENTS, SPECIAL, REGISTER OF	120
STUDENTS, UNDERGRADUATE, REGISTER OF	101
TEXTBOOKS	99

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PHILADELPHIA COLLEGE OF OSTEOPATHY

CLINICAL STAFF

EDGAR O. HOLDEN, A.B., D.O., Litt.D., Chairman

General Clinic

Monday, Wednesday, Friday, at 1 P. M.

RALPH P. BAKER, D.O., Clinical Professor

WILBUR P. LUTZ, D.O., Clinical Professor

THEODORE W. STIEGLER, D.O., Clinical Professor

HARRY C. HESSDORFER, D.O., Assistant Clinical Professor

ROBERT C. McDANIEL, D.O., Demonstrator

JOSEPH L. HAYES, D.O., Demonstrator

JOHN J. McHENRY, D.O., Demonstrator

JOSEPH L. ROOT, III, D.O., Demonstrator

B. T. BAILEY FLACK, D.O., Demonstrator

Division A—Practice: RALPH L. FISCHER, D.O., M.Sc., Attending Physician; EARL H. RICEMAN, D.O., WILLIAM F. DAIBER, D.O., LEO C. WAGNER, D.O., M.Sc., Assistant Attending Physicians; W. WESLEY ROWE, D.O., Fellow

SECTION 1. DISEASES OF THE CHEST. Tuesday and Thursday, 2 P. M.

WILBUR P. LUTZ, D.O., WILLIAM F. DAIBER, D.O., JOSEPH L. ROOT, III, D.O., Examining Physicians.

SECTION 2. ENDOCRINOLOGY AND METABOLIC DISEASES. Tuesday, 2 P. M.
EARL H. RICEMAN, D.O., Attending Endocrinologist.

SECTION 3. DERMATOLOGY AND SYPHILOLOGY. Tuesday, 2 P. M. Saturday 10 A. M.

EDWIN H. CRESSMAN, D.O., M.Sc., Attending Dermatologist; ANNA M. DUNLEVY, D.O., Assistant Dermatologist.

SECTION 4. ELECTROCARDIOGRAPHY. Tuesday and Thursday, 1 P. M.
JOSEPH L. ROOT, III, D.O., Attending Electrocardiographer.

SECTION 5. GASTROENTEROLOGY. Tuesday, 2 P. M.

EARL F. RICEMAN, D.O., GUY W. MERRYMAN, B.S., D.O., Attending Gastroenterologists; JOSEPH C. SNYDER, B.S., D.O., EARL T. SCALLY, B.S., D.O., Clinical Assistants.

SECTION 6. ARTHRITIS. Wednesday, 11 A. M. New cases. Friday, 1 P. M.

JOHN J. MCHENRY, D.O., Attending Physician; RALPH M. ZECCA, D.O., Clinical Assistant.

Division B—Osteopathic Technique: C. HADDON SODEN, D.O., M.Sc., Professor; JOHN H. EIMERBRINK, D.O., Associate Professor; WARREN E. BALDWIN, D.O., DAVID SHUMAN, D.O., JACOB L. LEBOW, D.O., Clinical Assistants.

SECTION 1. HYPERMOBILE. Monday, 2 P. M.

DAVID SHUMAN, D.O., Assistant Attending Physician

Division C—Osteopathic Research: FREDERICK A. LONG, D.O., M.Sc., Professor; GUY S. DEMING, A.B., D.O., Fellow.

Division D—Records and Statistics: HARRY C. HESSDORFER, D.O., in Charge.

Division E—Social Service: ROBERTA M. WILSON, A.B., in charge;

DEPARTMENT OF SURGERY

Monday, Wednesday, Friday, 2 P. M.; Saturday, 8 A. M.

D. S. B. PENNOCK, M.D., D.O., D.Sc., EDWARD G. DREW, D.O., D.Sc., F. A. C. O. S., Attending Surgeons; HARMAN Y. KISER, D.O., JAMES M. EATON, D.O., GALEN S. YOUNG, D.O., Clinical Assistants.

DEPARTMENT OF GYNECOLOGY

Monday, Wednesday, Friday, 2 P. M.; Thursday, 1 P. M.

EDWARD G. DREW, D.O., D.Sc., F. A. C. O. S., Attending Gynecologist; CARLTON STREET, D.O., M.Sc., JOSEPH L. SIKORSKI, D.O., ARTHUR M. FLACK JR., B.A., D.O., WILLIAM STAUFFER, D.O., Clinical Assistants; DEWAINE GEDNEY, D.O., Fellow.

DEPARTMENT OF GENITO-URINARY DISEASES

Monday, Wednesday, Friday, 2 P. M.

H. WILLARD STERRETT, D.O., M.Sc., Attending Urologist; FRANCIS ROSSELL, D.O., REGINALD W. TEAGUE, D.O., WILLIAM F. McDUGALL, D.O., BLANCHE ALLEN, A.B., B.E., D.O., Clinical Assistants; HARRY N. KERR, D.O., Fellow.

DEPARTMENT OF OPHTHALMOLOGY AND OTOLARYNGOLOGY

Monday, Wednesday, Friday, 2 P. M.

J. ERNEST LEUZINGER, D.O., M.Sc., F. I. S. O., Attending Physician; ANTONIO ABEYTA, D.O., JEAN L. SHEPERLA, D.O., PHYLLIS W. HOLDEN, D.O., H. MAHLON GEHMAN, D.O., THOMAS K. STANDRING, D.O., GEORGE GUEST, D.O., RAYMOND JUNI, D.O., Clinical Assistants; MARVIN E. BLUMBERG, D.O., Fellow.

DEPARTMENT OF BRONCHOSCOPY

Wednesday, P. M.

J. ERNEST LEUZINGER, D.O., M.Sc., F. I. S. O., Attending Bronchoscopist;
H. MAHLON GEHMAN, D.O., Clinical Assistant.

DEPARTMENT OF PODIATRY

Tuesday and Saturday, 9 A. M.

GEORGE S. ROTHMEYER, D.O., M.Sc., Attending Podiatrist; ERNEST F.
RUZICKA, D.O., JOHN J. LALLI, D.O., Clinical Assistants.

DEPARTMENT OF PROCTOLOGY

Monday, Wednesday, Friday, 2 P. M.

MICHAEL COLEMAN, D.O., ENRIQUE VERGARA, D.O., Attending Proctologists;
FRANCIS R. O'BRIEN, D.O., Clinical Assistant.

MATERNITY DEPARTMENT

Daily: Monday, Wednesday, Friday, 1 P. M.; Monday and Wednesday, 7 P. M.

H. WALTER EVANS, D.O., M.Sc., Attending Obstetrician; FRANCIS E. GRUBER, D.O., Director of Maternity Clinic; HERMAN KOHN, D.O., Assistant Attending Obstetricians; HARRIET GOSPER, D.O., JULIAN MINES, D.O., EARL OSTERMAYER, D.O., LESTER EISENBERG, D.O., Clinical Assistants; FREDERICK DUBIN, D.O., R. RAYMOND KUPTSOW, D.O., KENNEARD STEIGELMAN, D.O., Fellows.

DEPARTMENT OF PEDIATRICS

Tuesday and Thursday, 2 P. M.

RUTH E. TINLEY, D.O., M.Sc., Attending Pediatricist; WILLIAM SPAETH, D.O., MUNRO PURSE, D.O., BERYL ARBUCKLE, D.O., BEATRICE KRATZ, D.O., MARY LULICK, D.O., DORIS JANE ISENBERG, D.O., ELEANOR BOAL, D.O., HARRIET E. WEISGERBER, D.O., Clinical Assistants; H. EDWARD DAVIS, D.O., CLIFFORD W. MCCLINTOCK, D.O., Fellows.

DEPARTMENT OF NEUROLOGY

Monday, 1 P. M. Wednesday, 2 P. M. New Patients.

J. FRANCIS SMITH, D.O., M.Sc., Attending Neurologist; MARION A. DICK, D.O., J. L. FULLER, D.O., ELIZABETH B. KEITSCH, D.O., Clinical Assistants.

X-RAY DEPARTMENT

PAUL T. LLOYD, D.O., M.Sc., Attending Radiologist; KENNETH L. WHEELER, D.O., M.Sc., Clinical Assistant; JOHN H. PULKER, D.O., Fellow.

DEPARTMENT OF PHYSIOTHERAPY

Monday, Wednesday, Friday, 2 P. M.

MARION A. DICK, D.O., Attending Physiotherapist.

DEPARTMENT OF BACTERIOLOGY

JOSEPH F. PY, D.O., M.Sc., Attending Bacteriologist; JACOB RAPP, D.O.,
HARRY BINDER, D.O., HELEN ELLIS, D.O., HAROLD BRUNER, D.O.,
Clinical Assistants; GEORGE ESSAYIAN, D.O., Fellow.

SECTION 1. ALLERGIC DISEASES. Tuesday and Thursday, 1 P. M.

HARRY BINDER, D.O., Assistant Attending Physician; GEORGE S. ESAYIAN,
D.O., Fellow

DEPARTMENT OF PATHOLOGY

OTTERBEIN DRESSLER, D.O., M.Sc., Attending Pathologist; LOIS SCHANTZ,
D.O., CLARENCE BALDWIN, D.O., MITCHELL BRODKIN, Ph.G., D.O., WIL-
LIAM L. SILVERMAN, A.B., D.O., SIMON GREEN, Ph.G., D.O., Clinical As-
sistants; WALDO MILLER, D.O., SIDNEY M. WEITBERG, A.B., D.O.,
GERTRUDE NOAR, D.O., PHILIP CUTLER, D.O., HAROLD R. GREEN, D.O.,
Fellows.

DEPARTMENT OF CHEMISTRY AND TOXICOLOGY

RUSSELL C. ERB, B.S., M.S., F. A. I. C., Attending Toxicologist; KENNETH
L. SENIOR, B.S., Bio-Chemist.

PART II

Organization

New College Building

Osteopathic Hospital of Philadelphia

Equipment and Facilities

Hospital Internships

Endowment Fund

Historical Statement

THE Philadelphia College of Osteopathy is in its forty-first year. Established in 1898, it was incorporated as the Philadelphia College and Infirmary of Osteopathy, January 24, 1899, under the laws of the State of New Jersey. The first class was graduated in 1900, and each succeeding year other classes have received the osteopathic degree. In 1921 the new corporate name of Philadelphia College of Osteopathy was authorized.

The college has been housed during these years in various buildings. The first college was opened in the Stephen Girard Building and shortly was transferred to larger quarters in the Witherspoon Building. In 1903 it was moved to the northeast corner of Thirty-third and Arch Streets. From 1908 to 1911 it was situated at 715 North Broad Street, and from 1912 to 1916 at 832 Pine Street. In 1916 a building to house the college was purchased at the southeast corner of Nineteenth and Spring Garden Streets. A fifty-bed hospital was erected on the land to the rear of this improved college building, while subsequently two properties adjacent to the college on Spring Garden Street were purchased to serve as annexes to the college and hospital units. With the growth of the college and its hospital beyond capacity, the Board of Directors secured the present site at Forty-eighth and Spruce Streets in 1928. The splendid new college building was opened to classes on November 16, 1929. The ideals and traditions of the founders, Drs. O. J. SNYDER and MASON W. PRESSLY, have been maintained in the college in the science and osteopathic departments. The philosophy and teachings of the founder of osteopathy, ANDREW T. STILL, and other noted investigators, have been perpetuated by teachers of national reputation as O. J. SNYDER, MUTTART, FLACK, PENNOCK, DUFUR, NICHOLL, E. G. DREW, IRA W. DREW, GALBREATH, BASHLINE, BALBIRNIE, GREEN, some of whom still occupy chairs.

The Osteopathic Hospital of Philadelphia was chartered under the laws of Pennsylvania, May 10, 1911, "to establish support and conduct a General Hospital for the treatment of sick and injured persons, and to conduct a Training School for Nurses." The corporation has no stock and is not conducted for profit. The hospital is the outgrowth of a Dispensary located at 1617 Fairmount Avenue. In 1911 the Osteopathic Hospital of Philadelphia was established at 410 South Ninth Street. When the College moved to Nineteenth and Spring Garden Streets, the hospital was temporarily quartered at 1725 Spring Garden Street, where it remained until completion of the hospital building on the Nineteenth Street site in 1918.

In January, 1929, the Board of Directors sponsored a public campaign for funds, setting the goal at \$1,030,000, to meet the needs for new college and

hospital buildings. The success of this great drive, in which \$1,044,000 was subscribed, is without parallel in osteopathic achievement involving a building program.

The site at the northeast corner of 48th and Spruce Streets was purchased in 1928 at a cost of \$165,000. Upon this tract, with a frontage of 281 feet on Spruce Street and 250 feet on 48th Street, complete units for college, hospital and administration were erected in 1929 at a cost of a million dollars. The architectural beauty of these structures has attracted wide attention. The institutions have been skillfully designed to afford the finest appointment for clinical, laboratory, and hospital instruction in osteopathy.

The growth of the college from its inception has been uniformly successful. It has always maintained a place in the front rank of osteopathic colleges, and has fostered a high standard of preliminary education. The curriculum has been increased from time to time in keeping with the advances in osteopathic and medical teaching and scientific equipment. The course of study was originally two years of ten months each. Later this was increased to three years of nine months each. In 1911 it was changed to four years of eight months each. Since 1922 the four-year course covers nine months per year.

The Philadelphia College of Osteopathy and the Osteopathic Hospital of Philadelphia are so organized that each department extends throughout College, Hospital and Dispensary as one unit under the direction of a single head. Special attention is directed to the clinical teaching of osteopathic methods and practices.

The College has drawn its students from the majority of the States in the Union, and from many foreign countries as well, and has sent several hundred alumni out over the world. It has always been the prime object of the school to give a broad and thorough osteopathic education and it believes from the records of its alumni that this aim is being substantially fulfilled.

ORGANIZATION

The general governing body of the Philadelphia College of Osteopathy is the Board of Trustees. The Board consists of fifteen members, the majority of whom are prominent laymen. The properties of the College are held and their educational and financial interests are administered by the Board. The Faculty are appointed to office by the Board of Trustees. The details of instruction and discipline are delegated to the Faculty, subject to the approval of the Board of Trustees.

THE COLLEGE

The Philadelphia College of Osteopathy formally occupied the new building at the northeast corner of 48th and Spruce Streets, in November, 1929. The

completed College and Hospital units represent an investment of one million dollars. They are so placed on the new site as to permit of an expansion program whereby these structures may be duplicated as demands on them dictate.

Designed in collegiate Gothic, the new structure, comprising four floors and a basement, is built of colonial red brick with limestone trim and variegated slate roof. The main entrance on Spruce Street, flanked by towers, opens into a large lobby connecting the College and Hospital units. Immediately off the lobby are waiting rooms and general administrative offices. In the basement of the College is found the Out-Patient Department. The arrangement comprises 37 treatment rooms, adequately arranged and lighted, and finely appointed offices and quarters for making general physical examinations and special examinations. In addition, there are completely equipped departments for clinical instruction in neurology, obstetrics and gynecology, pediatrics, proctology, ophthalmology and otolaryngology, urology, dermatology, diseases of the chest, physical therapy, etc. The feature of the first floor is an auditorium containing the College museum, with a seating capacity of 500. Also located here are the College administration and Dean's offices, the College library, and the women's rest room. On the second floor are located laboratories—physiology and pharmacology, embryology and histology, special research laboratories—and four classrooms. On the third floor is found the Department of Chemistry. Special effort has been made to make this laboratory, which is equipped for teaching all branches of chemistry, most complete. Space to accommodate 150 students is provided. In addition, this floor contains the pathology and bacteriology laboratories, research laboratories, and two classrooms. The fourth floor houses the dissection laboratory. This consists of working facilities for 100 students adjoined by the cadaver room, mortuary and autopsy room.

The new Collège building is designed to afford most desirable accommodations for all College activities. The classrooms and laboratories have been carefully appointed and contain all modern equipment. The auditorium, library, museum, research laboratories and clinical facilities are valued acquisitions of the new structure. It is believed that the building has been fashioned to afford the finest resources for clinical teaching of osteopathy, as well as being unique in design and setting.

THE HOSPITAL

Adjoining the Administration and College units, the new Hospital building offers finest accommodations for 100 patients, comprising 20 private rooms, 8 semi-private rooms, 8 wards, nurseries, delivery unit, operating units, solaria, work rooms, x-ray quarters, kitchens, dining rooms, etc. The basement comprises kitchen, dining rooms, serving rooms. In the central section

of this floor is found the X-ray Department containing complete diagnostic and therapeutic units. The first floor is planned as a general floor. Here are found receiving and emergency wards, three adult wards and a children's ward, seven private and three semi-private rooms. Typical of all floors are the southern exposure solaria and the work-room arrangement consisting of nurses' station, service room, utility room, serving kitchen, flower room and clothes storage. The Maternity Department occupies the second floor. Here are located a complete operating and delivery unit, two wards, five private and three semi-private rooms, general and isolation nurseries; in addition, the typical work rooms and solarium. Surgery occupies the third floor: an operating amphitheater with seating capacity of approximately 200, a private operating room, anaesthetizing room and the orthopedic department. Work rooms and sterilizing room occupy the central section. Three wards, two semi-private rooms and several private rooms with the work rooms and solarium make up the remainder. The amphitheater of the third floor operating room occupies the central section of the fourth floor. Adjoining are laboratories of pathology and bacteriology, the mortuary and autopsy room, and the classrooms of the School of Nursing, while the east wing contains the interns' quarters.

The combination of an osteopathic college and a hospital is the ideal plan of organization for giving a student the necessary clinical training. By this arrangement all departments of college teaching may be correlated in a satisfactory manner. Each clinical department extends throughout College, Hospital and Dispensary as one unit under the direction of a single head.

CLINICAL FACILITIES AND OPPORTUNITIES

The clinics of the Philadelphia College of Osteopathy and its Hospital during recent years have been distinctive in their extensive scope, stable organization and abundant patronage. Situated in a great medical metropolis, the osteopathic dispensary has of necessity competed with similar units of other institutions and has flourished under constantly increasing demands.

A large number of demonstrators on daily service makes possible intimate and personal contact with the individual students. In the out-patient dispensary the vast amount of clinical material further insures contact with a wide range of varying grades of the different diseases. The clinical department prescribes systematic and coordinated instruction in all phases of osteopathic practice.

The schedules for third and fourth year classes are so arranged that the students are daily occupied in the practical work in the College clinic and in the wards and laboratories of the Hospital. For a period of several weeks

senior students serve as clinical clerks in the Hospital. Additional hospital teaching facilities are afforded by attendance of third and fourth year students in small groups at the Municipal Hospital of Philadelphia for bedside instruction in contagious diseases. An Out-Patient Maternity Clinic furnishes an abundance of subjects for prenatal and general obstetrical care in homes throughout that section of the city.

HARVEY SCHOOL OF ANATOMY

The Harvey School of Anatomy is a regularly chartered institution for the study of practical anatomy, and is housed in the entire top floor of the new College building. A collection of special dissections, specimens and models is on display and arranged for study. The facilities afford excellent opportunities for detailed investigation of normal and abnormal structures. The dissecting room is of the latest design. It is equipped with 30 dissecting tables as well as cabinets of special demonstration material. The methods of lighting, ventilation, preservation of bodies, incineration are in every way modern and sanitary.

THE MUSEUM

The Museum of the College contains numerous valuable specimens and models placed in mahogany, plate-glass, well-lighted cases occupying the entire north wing of the main auditorium. The collection includes both normal and pathological specimens, serial sections, dissections and mounted preparations illustrating the major diseases. Among the most notable are the collection of bone specimens, human embryos, Spalthoholtz preparations, development of the cardio-vascular system in plaster, etc.

The Museum is open from 9:00 A. M. to 5:00 P. M. The curator, or an attendant, is in attendance constantly. Students and graduates may have access to these specimens at any time upon application to the Director.

LIBRARY

The general library of the College has attractive quarters in the new college building, adjacent to the auditorium. It contains more than 2,500 volumes recommended by the various departments for collateral reading. including a good collection of all osteopathic textbooks and periodicals. Current osteopathic and medical journals are received and bound volumes of the most important journals are on hand covering a number of years. Students in the College have access to the library during the regular college hours, and any of the books, with inconsiderable exceptions, may be borrowed for

a period of one week upon presentation of a library card which will be issued to individuals by the librarian upon request. Working libraries form portions of the equipment in all of the laboratory, research, and clinical departments and are accessible to the students.

HOSPITAL INTERNSHIPS

Each year certain members of the graduating class are recommended to the Board of Directors of the Osteopathic Hospital of Philadelphia for appointment as resident interns, to serve for one year from the following first of July. This selection is made primarily on the basis of scholarship and personality, as well as intellectual fitness. The Committee of the Board on appointments also assists in securing positions as resident interns in other osteopathic hospitals throughout the country. At the end of one year's service a determined number of resident interns may be retained for an additional year, thereby qualifying for admission to the examinations conducted to determine fitness for the practice of major surgery in certain states. The appointments to the Osteopathic Hospital of Philadelphia received and accepted by members of the classes of 1939 and 1940 are as follows:

Senior Interns

Terms expires June 30, 1941

LAWRENCE W. BROWN (1939).....Troy, Pa.
BRANT W. DITMORE (1939).....Albany, N. Y.
WILLIAM J. FUREY, JR. (1937) (Term expires January 1, 1941) Philadelphia, Pa.

Junior Interns

Terms expire June 30, 1941

WILLIAM J. DAVIS (1939).....Scranton, Pa.
L. ROY DUNKELBERGER (1940).....Elizabethtown, Pa.
ARNOLD GERBER (1940).....Philadelphia, Pa.
JOHN E. LEECH (1940).....Narberth, Pa.
ALEXANDER J. LYONS (1940).....Indiana, Pa.
WILLIAM J. MORRIS, JR. (1940).....Philadelphia, Pa.
W. C. SPENCE, JR. (1940).....Goldsboro, N. C.
RAYMOND RUBERG (1939) (Term expires January 1, 1941) Philadelphia, Pa.

GENERAL FUND

During the Fall of 1924 plans were inaugurated for the creation of a general fund to take care of special requirements of the College. The importance of the work of training students for useful careers in the practice of osteopathy justifies the request for the generous support of all those who may be interested in the endeavors of the College. In view of the increased demands upon the College, in keeping with its progressive program, and because of advanced costs of instruction, there is need for additional resources for special equipment and facilities over and above that realized from general tuition and fees.

The Class of 1927 instituted the work by the purchase of a euscope; the combined classes of 1925-26-28 contributed a basal metabolism machine. There have followed a number of gifts and contributions which vouchsafe the goodly purpose of the program. Each graduating class has turned over a sizable contribution to the College for the purpose of filling some special need. It is hoped that additional gifts may be secured from the individuals and as well interested organizations of both the College and the profession at large, that the general fund may reach such proportions as to insure timely achievements in the special educational needs of the College.

ANNUAL GIVING FUND

In line with outstanding and forward-looking educational and eleemosynary institutions, the Philadelphia College of Osteopathy instituted an Annual Giving plan, whereby a channel will be afforded through which alumni and friends may give tangible expression of loyalty to the College. In answer to the call made upon them alumni and friends of the institution had contributed a total of \$46,000.00, as reported June 1, 1940.

These generous gifts, to be continued from year to year and augmented by countless other contributions from graduates and friends who will be attracted by the feasibility of the plan to strengthen the fundamental resources of the College, will go a long way toward making it possible for the institution to bolster its assets along with its educational standards.

ENDOWMENT

In step with this noteworthy planning for the future through the Annual Giving plan, the Philadelphia College of Osteopathy has reached a point in her development where the most modern protective device known for the conservation of invested funds—a trust agreement—has been drafted and under which a fund will be deposited for investment with a corporate fiduciary as trustee.

That the College and Hospital are already crowded to capacity was recognized by the Board of Directors at its meeting on February 19, 1936, and a resolution was adopted calling for a definite effort of fund raising to secure \$1,000,000 for endowment, enlargement, and expansion. Already the equivalent of \$150,000 has been pledged by the staff and the personnel of both institutions. The Alumni Association has endorsed the program while undergraduates and certain public-spirited citizens are ready to join in this effort.

In addition to current funds which will be secured, the Board of Trustees will urge the making of bequests and other forms of giving under wills, trust agreements, and through life insurance made payable to the fund.

Friends of osteopathy have a vital interest in the growth of the Philadelphia College of Osteopathy brought about by the rapidly increasing recognition by public and press of her standards and practices and the thorough course of teaching and demonstration in both institutions.

Board of Managers
of the
ENDOWMENT FUND
of the
PHILADELPHIA COLLEGE OF OSTEOPATHY

JOHN G. KECK, Chairman

C. HADDON SODEN

FRANK P. WILL

JOSEPH W. HENDERSON

HENRY H. SAVAGE

DONALD L. HELFFERICH

WALTER T. ANDREWS

GEORGE E. STAUFFER

EDGAR O. HOLDEN, Dean (ex-officio)

PART III

THE UNDERGRADUATE SCHOOL

General Information

Fees

Regulations

Fall Examination Calendar

GENERAL INFORMATION FOR STUDENTS

THE Fortieth Annual Session will open on Tuesday, September 17, 1940, with formal exercises at 9:00 A. M. in the College auditorium, at the northeast corner of 48th and Spruce Streets. The regular schedule of classes begins immediately following the general assembly.

The academic year ends the first Saturday in June, and involves thirty-three weeks of actual work. The year is divided into two semesters: the Winter Semester, from the middle of September to the end of January; and the Spring Semester, from the beginning of February to the first week of June. There are recesses at Thanksgiving, Christmas and Easter, and during the year certain holidays are observed as announced on the College calendar.

New classes are assembled only in September of each year.

Commencement exercises will be held Saturday, May 31, 1941.

REGISTRATION

Students should register in person on or before September 16th, previous to the opening of the fall session. An additional fee of \$5.00 is charged for late registration. At the time of registration sections will be assigned. The roll for the year closes September 30th and no student will be admitted after this date. Students entering late are held responsible for the absences thus incurred.

Students will not be admitted to any classes until arrangements have been made at the business office for tuition and other fees, and cards of admission issued. These cards of admission should be carried at all times and are needed for admission upon the various student activities.

Tuition fees should be paid by check, for the exact amount due. The offices of the College are not permitted to indorse or cash checks.

Students should come prepared to pay all fees at the time of registration and to purchase the necessary books and equipment for properly beginning their studies. A college bookroom is maintained from which books and supplies may be purchased.

Early registration of all students is advisable in order to facilitate enrollment, assignment to classes and laboratories and the prompt beginning of the College schedule.

PERSONAL EXPENSES

The cost of living in Philadelphia is at least as low as in any other large city. There are no dormitories.

The office of the Director of Admissions prepares a register of approved

lodging and boarding houses near the College, all of which have been inspected and recommended. Rooms cost from \$3.50 upward per week for each student, where two students occupy one room, to \$5.00 for a single room. Table board may be had in the vicinity at prices from \$6.00 per week upward. Textbooks cost about \$50.00 per year on an average for the four years. Instruments needed for the various diagnostic examinations of patients cost approximately \$50.00 covering the four years' course.

Students arriving from a distance will save time and expense by coming direct to the College to be referred to suitable boarding places.

STUDENT EMPLOYMENT

The amount of time available for osteopathic students to engage in part-time work is necessarily limited. No one should enter the College without clearly understanding beforehand just what the financial obligations amount to for the course including living expenses and prospective students are urged not to attempt to begin the first year without having adequate funds in advance. Although there is no employment bureau organized at the College, the opportunities afforded self-supporting students for obtaining part-time employment have been as plentiful as in any other city in the past the size of Philadelphia. Such opportunities have been lessened in the instance of the general economic depression. However, the National Youth Administration has afforded some employment for a percentage of the students. The College frankly discourages the assumption of tasks involving too many hours or the taxing of energy of the students.

SCHOLARSHIPS

The Noble Crain Harrison Memorial Fund. A gift under the will of Theresa H. Harrison, comprising the income from a bequest of \$4,500.00, is available toward the regular tuition fees of students pursuing their studies in said College selected by the Board of Trustees of the College. A specific term of the will is that the Trustees "shall in their discretion choose persons who are least able financially to pay their tuition and who are morally, mentally and physically worthy and competent."

LOAN FUNDS

The Philadelphia College of Osteopathy has two general funds that are used to make loans to students. They are: No. 1—The Student Loan Fund of the American Osteopathic Association, which provides for a student loan, not to exceed \$300.00, to members of the upper classes of an osteopathic institu-

tion who, in the opinion of the Faculty Advisory Committee of the College, are worthy of favorable consideration. The student receiving the loan is required to furnish collateral such as an insurance policy in which the American Osteopathic Association is made the beneficiary.

No. 2—A revolving fund is available to members of the third and fourth year classes who are in need of assistance. Applications for loans are received by the Associate Dean of the College for submission to the Committee of the Faculty. Account is taken of the applicant's character, scholastic record and need of financial assistance.

STUDENT ADVISORY SYSTEM

A student advisory service is in effect at the Philadelphia College of Osteopathy. Through this service a member of the faculty is assigned to each student at the time of registration in September. This assigned faculty member acts as guide and counsellor for the student during his entire attendance at the College. The student is urged to consult with his adviser on all problems, academic or otherwise.

HEALTH SERVICE FOR STUDENTS

ANGUS G. CATHIE, D.O., Physician in Charge

All entering students will be given a physical examination during their first semester at the school. Each student is expected to avail himself of the opportunity for a thorough physical examination each school year. The College provides an official osteopathic physician to the students. He has scheduled hours for consultation and will direct for students such services as may be necessary. A health fee of \$10.00 payable yearly by all students entitles the student to attendance in ordinary illnesses during the College year when deemed necessary by the official physician in charge. Students, who have in attendance physicians of their own choice, will not be entitled to the general benefits of the Health Service program. In all cases of sickness involving absences from classes students should notify the Dean's office of the disability.

Cases requiring hospitalization during the academic year will be cared for in private wards for a period not in excess of two weeks, without charge to the student for general service. Hospitalization in excess of two weeks per year in a private ward is charged against the student at the regular rates less 10 per cent discount. The services include everything which the Hospital regularly furnishes private patients. For the services of special nurses, special therapy and dressings, special laboratory work, x-ray examinations, operations, etc., the student bears the expense. Laboratory, roentgenologic and special examinations as are indicated are charged only on a cost basis.

MISCELLANEOUS

The College building is open daily throughout the year, except on Sundays and holidays, from 8:00 A. M. until 5:00 P. M., Saturdays until noon, for the registration of students and the transaction of other necessary business. The Dean and the Associate Dean may be seen every day during the year at 10:00 A. M. All business connected with the College is transacted at the office of the Dean. If a personal interview with the Dean or the Associate Dean is not possible or convenient, requests by letter for catalogs and information regarding educational entrance requirements, students' records, courses of study, advanced standing, etc., will receive prompt attention.

FEES FOR THE SESSION 1940-1941

Matriculation Fee (paid once)	\$ 10.00
Tuition Fee (each year)	320.00
Laboratory and Clinic Fees:	
1st and 2nd Years	30.00
3rd and 4th Years	20.00
Health Fee	10.00

The matriculation fee of \$10.00 is payable at the time of registration, by all new students, and may be sent by mail with the credentials of the applicant. The fee will be returned only if the candidate fails to qualify for entrance.

The basic tuition fee is \$320.00 per annum, and is payable in two installments—the first due September 16th. The second must be paid on or before January 27th of the current session. No exceptions to these rules will be admitted. *An additional fee of \$5.00 will be charged for late registration.*

In each of the first two years there is a laboratory charge of \$30.00. In the third and fourth years the laboratory and dispensary fee is \$20.00 per annum. These fees cover only the ordinary materials supplied in all the laboratories and clinics of the College and Hospital. The fees for each year are payable in September at the time of registration.

A health fee of \$10.00 is charged each student to cover costs of osteopathic and surgical supervision during the college year. The fee must be paid at the time of registration in September.

BREAKAGE DEPOSIT

Upon registering, each student is required to deposit a breakage fee of \$10.00. At the beginning of each school year the deposit must be restored to its original amount. Charges to this deposit are made to cover breakage and damage in the laboratories, property damage to buildings, and loss of instruments in laboratories and clinics. Deductions to cover losses are made from the deposits of individual students when it can be determined by which in-

dividual student the breakage, loss of apparatus, or defacement of buildings was caused; when it cannot be so determined, the amount assessed for the loss is deducted pro rata from the deposits of all members of the class.

MISCELLANEOUS EXPENSES

Student Activity Fee.....	\$ 12.00
Rental of Microscope (yearly).....	10.00
Obstetrics Fee.....	10.00
Graduation Fee.....	25.00

The student activity fee is \$12.00 yearly and includes dues of the Athletic Association, subscriptions to the *Osteopathic Digest* and the *Synopsis* (Year Book), membership in the Neurone Society, library privileges, etc. This fee is payable at the time of registration on or before September 18th.

A rental fee of \$40.00 is charged for use of microscopes during the entire four years. For convenience to the student, payment of this rental fee has been apportioned over the four years, viz., \$10.00 per annum. Microscopes must be maintained in good condition. The character of the work throughout the entire course requires constant use of the microscope.

The Obstetrics Fee is a special fee, payable at the beginning of the third and fourth years—total \$10.00.

A graduation fee of \$25.00 is charged each student, the fee being due at the time of the second-half payment in the Senior year. This fee will be returned if the student does not qualify for graduation.

A student is entitled to one free transcript of his college records. For each additional transcript, a fee of \$1.00 is charged.

SUMMARY OF FEES

Make Checks Payable to the Philadelphia College of Osteopathy

FIRST-YEAR STUDENTS

Matriculation Fee.....	\$ 10.00
Tuition Fee.....	320.00
Laboratory Fee.....	30.00
Health Fee.....	10.00
Student Activity Fee.....	12.00
Breakage Deposit.....	10.00
Rental of Microscope (yearly).....	10.00
	<hr/>
	\$402.00

The first payment of tuition fee for the first-year class is \$252.00 and is due and payable September 16th.

The second payment for the first-year class is \$150.00, and must be paid not later than January 27th.

SECOND-YEAR STUDENTS

Tuition Fee.....	\$320.00
Laboratory Fee.....	30.00
Health Fee.....	10.00
Student Activity Fee.....	12.00
Breakage Deposit (less refund credit).....	10.00
Rental of Microscope.....	10.00
	<hr/>
	\$392.00

The first payment of the tuition fee of the second-year class is \$242.00 and is due September 16th.

The second payment is \$150.00 and must be paid not later than January 27th.

THIRD-YEAR STUDENTS

Tuition Fee.....	\$320.00
Clinic Fee.....	20.00
Health Fee.....	10.00
Student Activity Fee.....	12.00
Breakage Deposit (less refund credit).....	10.00
Rental of Microscope.....	10.00
Obstetrics Fee.....	5.00
	<hr/>
	\$387.00

The first payment of the tuition fee of the third-year class is \$237.00, and is due September 16th.

The second payment is \$150.00, and must be paid not later than January 27th.

FOURTH-YEAR STUDENTS

Tuition Fee.....	\$320.00
Clinic Fee.....	20.00
Health Fee.....	10.00
Student Activity Fee.....	12.00
Breakage Deposit (less refund credit).....	10.00
Rental of Microscope.....	10.00
Obstetrics Fee.....	5.00
Graduation.....	25.00
	<hr/>
	\$412.00

The first payment of the tuition fee of the fourth-year class is \$237.00, and is due September 16th.

The second payment is \$175.00, and must be paid not later than January 27th.

REGULATIONS

The fees to be paid by students are subject to change at any time in the discretion of the Board of Trustees.

Fees are neither returnable nor transferable.

The student whose fees remain unpaid when due will be debarred from all

classes until his obligations are adjusted. The student will be held accountable for all absences incurred through the operation of this rule.

Any amount of the first tuition installment owing on October 15th and of the second tuition installment owing on February 15th shall be considered in arrears and subject to an additional fee of \$5.00.

Continued failure of a student to pay the tuition fee in full will result in his suspension and exclusion from college work.

A fee of \$5.00 is charged for each examination given out of course.

Students who are required to repeat the work of any year must pay the regular fees again.

Students are required to provide themselves with dissecting sets, laboratory materials, textbooks as recommended by the heads of the various departments and instruments needed for the various diagnostic examination of patients. Each second-year student is required to equip himself with a hemocytometer.

Under no circumstances are any departures made from these announced regulations. Failure to meet these conditions will automatically debar the student from attendance on classes and other privileges of the College.

REBATES

The matriculation fee is not subject to rebate after registration and payment of tuition. The student activity fee is not subject to rebate. The laboratory fees are not subject to rebate. The fee for rental of microscope will not be refunded.

If a student withdraws from College on account of illness or other physical disability within two months from the opening date of any semester, a pro rata return of the tuition fee may be authorized, provided the student files with the Dean a written notification of his withdrawal together with a physician's certificate. In no case will fees be refunded for dishonorable dismissal or withdrawal on account of poor scholarship.

Balances remaining on laboratory deposits are credited to the account of the student at the end of each year.

ANNUAL LIMITATION OF RULES

All the foregoing information, rules and regulations regarding fees, tuition, etc., relate to the year ending May 31, 1940. They affect all students regardless of the time of original matriculation in the College. The right is reserved to make changes in the curriculum, the rules governing examinations and promotion, the corps of instructors, etc., whenever the Faculty deems it expedient.

CONDUCT

The Faculty expects all students to observe such rules of decorum and order in the lecture rooms, laboratories and halls of the College, and in the Hospital and clinics, as are becoming men and women of refined character. The Faculty reserves the right to terminate the connection of any student with the institution at any time on the ground of what it regards as moral or mental unfitness for the profession or improper conduct while connected with the College.

FALL EXAMINATION SCHEDULE

SEPTEMBER 12TH—THURSDAY

- 9 A. M.—Freshman Anatomy, Surgery (Minor and General), Radiology.
- 11 A. M.—Sophomore Anatomy, Applied Anatomy.
- 1 P. M.—Applied Physics, Physiological Chemistry, Cardio-Vascular Diseases.
- 3 P. M.—Physiology, Gynecology, Therapeutics, Laryngology.

SEPTEMBER 13TH—FRIDAY

- 9 A. M.—Histology, Bacteriology, Serology, Gastroenterology, Physical Diagnosis, Neurology.
- 11 A. M.—Embryology, Pathology, Anaesthesiology, Obstetrics.
- 1 P. M.—Urology, Technique, Clinic, Hygiene.
- 3 P. M.—Technique Sections, Pediatrics, Principles, History, Pharmacology, Parasitology.

PART IV

THE UNDERGRADUATE SCHOOL

Requirements for Admission

Advanced Standing

Promotion

Graduation

Licensing Examinations

Requirements for Admission

A PPLICANTS for admission to the Philadelphia College of Osteopathy for the regular osteopathic course as candidates for the degree of Doctor of Osteopathy, in order to be accepted, must present satisfactory evidence of having successfully completed a course of preliminary study equivalent to the following:

(A) Four years accredited High School course or its equivalent, and in addition,

(B) A minimum of two years of collegiate work in an approved College of Arts and Science, or its equivalent, with specified courses in English, Physics, Biology and Chemistry (including an approved course in organic chemistry).

The minimum requirement which will be accepted under (B) comprises 50 per cent ($\frac{1}{2}$) of the total number of credits required for the conferment of the baccalaureate degree in arts or science at an approved college of liberal arts and science.

The details of requirement (B) are as follows:

1. **Chemistry:** **INORGANIC:** Full college course of at least two hours of lectures or recitations, and four hours of laboratory work a week for one year are required. **ORGANIC:** A minimum of four semester hours, of which at least two should be laboratory work.

2. **Physics:** A course of at least eight semester hours of which two semester hours shall consist of laboratory work.

3. **Biology:** A course of at least eight semester hours, of which four semester hours shall consist of laboratory work. This requirement may be satisfied by a course of eight semester hours in either General Biology or Zoology, or by courses of four semester hours each in Zoology and Botany, but not by Botany alone.

4. **English:** The usual introductory college course of six semester hours in English composition and literature is included in the specified requirements.

Recommended Subjects: A reading knowledge of a modern language (French or German)* is strongly urged. If the reading knowledge in one of these languages is obtained on the basis of high school work, the student is urged to take the other language in his college course. Basic courses in Latin are also desirable. These should include grammar and such knowledge of the language as may be acquired by reading four books of Caesar or their equivalent.

Additional Subjects: Prospective applicants continuing in college for three or four years are advised not to take excessive work in the chemical, physical and biological sciences except that the work in chemistry should include some instruction in qualitative and quantitative analysis and physical chemistry, if possible, and studies in organic chemistry may be extended.

Courses in human anatomy, human embryology, bio-chemistry, hygiene, bacteriology, histology, physiology and other subjects included in the professional curriculum, are disadvised for undergraduate credit. The pre-osteopathic student is urged to take additional work in subjects of cultural rather than vocational emphasis, such as literature, philosophy, history, fine arts, modern languages, political science, public speaking and so forth.

The collegiate credits in physics, chemistry and biology must also conform to the requirements of the Credentials Bureau, Pennsylvania Department of Public Instruction.

Students will not be admitted to the osteopathic course with any deficiencies in the requirements.

MEDICAL STUDENT QUALIFYING CERTIFICATE

Each accepted applicant must be legally authorized to begin the study of osteopathy by obtaining a Medical (Osteopathic) Student Qualifying Certificate from the New York State Department of Education and, in addition, a Pennsylvania Pre-professional Qualifying Certificate. The Philadelphia College of Osteopathy is registered with the University of the State of New York, and, in addition, its education standard is made to conform with the requirements of the Bureau of Professional Education of Pennsylvania.

*The State of New Jersey requires a minimum of six semester hours in either French or German for admission to study.

ADDITIONAL INFORMATION AS TO REQUIREMENTS

The various states have different standards of preliminary education. Students are cautioned to acquaint themselves with the provisions of the laws of their respective states governing pre-professional education requirements before entering upon the professional course.

For instance, for the study of osteopathy the State of Pennsylvania requires the completion of a standard four-year High School course, or the equivalent, and two years of college credit including specified semester hours in Physics, Chemistry and Biology. Again, the Medical Practice Act of the State of New Jersey calls for two years of pre-professional education, a graded four-year professional course in a recognized osteopathic college, and in addition one year of internship in an approved medical or osteopathic hospital, prior to acceptance to the licensing examinations of that state. A similar requirement obtains for the District of Columbia.

Certain states require that the student must have completed but one year of college work before entering an osteopathic college, while others require only the completion of an accredited High School course to enter upon the study of osteopathy.

It is to be expressly understood, however, that all students seeking admission, irrespective of the various state requirements, must satisfy the entrance requirements of the Philadelphia College of Osteopathy as set forth on page 42.

The student is earnestly advised to qualify himself under his State law, and receive the student's qualifying certificate from the State authorities before entering upon his professional study.

All applicants, irrespective of previous collegiate training, must present evidence satisfying the Committee on Admissions, not simply that they have satisfied the minimum instruction requirements but also that their college work has been of such character as to give promise of high quality in the osteopathic course. Intelligence and character are essential qualifications for admission.

In addition to the educational requirements, all students must be of good moral character and are required to submit two letters of recommendation to that effect.

All applicants, if requested, are required to present themselves in person by appointment at the office of the Dean at some time after their credentials have been submitted. Exception may be made in the case of applicants living at great distances.

Applicants for admission are directed to state at the time of application whether they have physical disabilities which may limit their capacity for the study of osteopathy.

Women are eligible for admission to the College on the same basis as men.

METHOD OF MAKING APPLICATION

All applications and inquiries regarding admissions should be addressed to the Director of Admissions from whom application forms may be obtained.

The application form properly executed and accompanied with the matriculation fee of \$10.00 and a recent 2 x 3 photograph of the applicant should be submitted to the Director of Admissions.

Upon receipt of the application the Registrar will proceed to obtain certification of High School and College credits and submit these to the State authorities for evaluation and rating. If the credentials are satisfactory a State certificate of credit (Qualifying Certificate) may be issued and the student notified to that effect.

Applications will be passed upon by the Committee on Admissions after all credentials have been filed. Candidates are notified as promptly as possible of the decision of the Committee. The Dean reserves the right to withhold any application from consideration because of unfitness of the individual applicant for the study of osteopathy in this institution.

No entrance examinations are conducted by the College.

The Dean will decline to admit all applicants exceeding such a number as can be effectively taught.

ADMISSION TO ADVANCED STANDING

Applicants for admission to advanced standing will be required in all cases to meet in full the current requirements for admission to the College. Transfers may be made only at the completion of a full school year. Students will not be admitted to advanced standing upon examination but only upon a satisfactory record from the osteopathic or medical college of their previous attendance. The College reserves the right, however, to give examinations in all subjects already pursued by the class to which admission is sought. No student coming from another school will be allowed any privilege in this school which would have been denied him in the school which he leaves.

A student of a college of osteopathy "registered" by the University of the State of New York will receive advanced standing in so far as his credentials show he has pursued studies and courses at least equivalent to those completed by the class to which he seeks admission, provided he is eligible for promotion in the institution in which he has pursued his osteopathic course and receives a letter of honorable dismissal. In no case may a student of an approved medical school receive credit for more than the work of the first two years in this College. Irregularities due to difference in the curriculum must be satisfactorily adjusted during the first year of the student's attendance.

No credit whatever will be allowed for students of professional courses such as pharmacy, optometry, veterinary medicine, etc.

In the case of students desiring to qualify for the practice of osteopathy in the State of New Jersey, it is required that they spend four years in an osteopathic college, inasmuch as credit is not granted for work pursued in medical colleges for which advanced standing is usually given.

EXAMINATIONS AND PROMOTIONS

Examinations for promotion are held at the end of each year. The final standing of a student in any subject is based upon the composite judgment of the responsible teachers in that department and not solely upon the results of written examinations. A student will not be admitted to the final examinations in any subject unless his class record, attendance, laboratory or practical work in that subject are all satisfactory. Attendance of at least 90 per cent of the scheduled classes is required. The passing grade is 75 per cent or "C."

No student will be admitted to the second or third year with more than one condition in the work of the previous year. Such condition must be removed by the end of the year or during a summer vacation, after pursuing additional work, under the direction of the head of the department in which a failure has occurred. No student will be admitted to the fourth-year class with a condition.

Any student who by quality of work or conduct indicates an unfitness to enter the profession of osteopathy may, at the discretion of the faculty, be required at any time to withdraw from the college.

A student will not be permitted to take more than five years to obtain his degree, except by special permission of the Faculty.

REQUIREMENTS FOR GRADUATION

Every candidate for the degree of Doctor of Osteopathy (D.O.) must be at least twenty-one years of age, and be of good moral character. He must have fulfilled all the requirements for admission to this College. He must have satisfactorily passed all prescribed examinations, and be free from indebtedness to the College and the Hospital. He must have complied with all the rules and regulations of the College and have attended four full courses of instruction in separate years of nine months each, the last of which must have been in this College. The candidates must attend in person the annual commencement at which the degree is conferred.

POST-GRADUATE STUDY—A FIFTH YEAR

While it is not possible to accord opportunities for graduate training to all members of the graduating class, it is believed that a fifth year as an intern in an osteopathic hospital or as a post-graduate student in a selected basic

science or clinical field is much to be desired. The broadening educational effect of such a training can hardly be over-estimated. Of the last graduating class, nearly 50 per cent applied for and secured appointments as interns or as graduate students in full-year courses. In addition to these a number are serving apprenticeships in offices with long established practitioners. The continued education of osteopathic physicians is synonymous with good osteopathic practice and provisions are contemplated which will ultimately make it possible for every osteopathic physician to continue his education if he wishes to do so.

The osteopathic hospitals scattered throughout the country are fast becoming important factors in this program. The Philadelphia College is interested not so much in the speed with which such a program develops as in the direction in which it should go. The authorities of the school believe that the quality of osteopathic service depends largely upon the extent to which osteopathic physicians keep abreast of new knowledge and methods for the diagnosis, treatment and prevention of disease. It is conceded to be a mistake for physicians to continue to practice as they were taught as students.

LICENSE TO PRACTICE OSTEOPATHY

All students, upon graduating, are required to take State Board licensing examinations to practice in the respective States for which they wish to qualify. Such examinations are given by either State Boards of Osteopathic Examiners or composite Medical and Osteopathic Boards of Examiners, as regulated by the various State laws. The passing of the Board examinations, and the subsequent license given to those who attain a satisfactory standing, give the privilege of registering for practice in certain other States without further examination. Students and graduates of the Philadelphia College of Osteopathy are admitted to the examinations of the National Board of Osteopathic Examiners. For information regarding the latter examinations write to Dr. John E. Rogers, National Board of Examiners, Oshkosh, Wisconsin.

LICENSE TO PRACTICE OSTEOPATHY IN PENNSYLVANIA

In accordance with Act No. 312 of the General Assembly, approved June 14, 1923, every license to practice as an osteopathic physician issued by the State Board of Osteopathic Examiners, shall authorize the holder thereof to practice osteopathy in all its branches, including minor surgery and obstetrics, without restriction, as taught and practiced in the legally incorporated, reputable colleges of osteopathy; but it shall not authorize the holder thereof to practice operative surgery without obtaining an additional license to practice such surgery.

LICENSE TO PRACTICE MAJOR SURGERY IN PENNSYLVANIA

Any person licensed to practice osteopathy in Pennsylvania, and desiring to enter upon the practice of operative surgery as taught and practiced in the legally incorporated, reputable colleges of osteopathy, may deliver to the Superintendent of Public Instruction, upon the payment of a fee of one hundred dollars, or such fee as shall be fixed by the Superintendent of Public Instruction, a written application for license, together with satisfactory proof, in such form as may be required by the Osteopathic Surgeons' Examining Board, that the applicant has served for a period of not less than two years as an intern or assistant surgeon in an approved osteopathic hospital which shall have at least ten beds per intern devoted to the treatment of diseases, shall maintain a thoroughly equipped modern pathological and clinical laboratory proportionate to the necessities of the hospital, and shall maintain a department of anaesthetists consisting of one or more anaesthetists, who shall have supervision over all the anaesthesia given in the institution, and whose duty it shall be to instruct all interns in the administration of anaesthetics. After the first day of July, one thousand nine hundred and forty-one, all applicants shall, in addition to the requirements hereinabove set forth, have successfully completed one year of surgical training in some legally incorporated, reputable osteopathic college, or, in lieu of such qualifications, the applicant may submit proof as hereinbefore required that he has served for a period of not less than five years as an intern or assistant surgeon in any hospital, approved by the Osteopathic Surgeons Examining Board, which shall meet the requirements hereinbefore set forth. All applicants, while serving as intern or assistant surgeon, shall be registered with both the State Board of Osteopathic Examiners and the Osteopathic Surgeons' Examining Board.

LICENSE TO PRACTICE OSTEOPATHY IN NEW YORK STATE

Graduates of the Philadelphia College of Osteopathy are admitted to the examinations for license to practice osteopathy in New York State.

Those desiring to take the New York State Board examinations are advised to obtain Handbook Number 9, which gives full particulars. Address Mr. Herbert J. Hamilton, in Charge of Professional Examinations, New York State Department of Education, Albany, New York.

SIGMA ALPHA OMICRON

An honorary scholastic society was established at the Philadelphia College of Osteopathy in June, 1924. Election to membership is made from the Senior Class prior to Commencement each year. Maintenance of high schol-

arship, regularity of attendance upon classes and clinics, display of intellectual and cultural qualities, promise of creative ability, are the chief criteria governing election. Gold keys and certificates are awarded to those meeting the requirement. The following students were selected from the Class of 1940:

Arnold Gerber	92.47%
Philip Cutler	90.63%
Lester W. Kent	90.35%
Richard C. Bond	90.16%

Honorable Mention

Herman Caplan	89.92%
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PRIZES AND AWARDS

The following prizes were awarded to members of the graduating class by Dean Holden at the Commencement exercises, held at Irvine Auditorium, University of Pennsylvania, 34th and Spruce Streets, Philadelphia, Pa., on June 1, 1940:

The Alumni Prize, a gold medal, awarded by the Alumni Association of the College for the best general average gained in the examinations for the entire curriculum to Arnold Gerber, average 92.69 per cent.

A Surgery Prize of twenty-five dollars, awarded by Dr. D. S. B. Pennock to the graduate who, in the opinion of his department, is most worthy, to David Hodgson. Honorable Mention to Byrne DeWeese.

A Prize in Technique of fifteen dollars, awarded by Dr. C. Haddon Soden to the member of the graduating class showing exceptional ability in osteopathic technique during the third and fourth years, to L. Roy Dunkelberger.

A Hospital Practice Prize of twenty-five dollars, awarded to that member of the graduating class for faithful performance of service to hospital patients and for ethical and professional deportment during all assignments as a sub-intern in the hospital, to Alexander J. Lyons.

The Clinical Osteopathy Prize of twenty-five dollars, awarded by the Dean of the College for general excellence in the conduct of his practical work in the general clinical department of the College, to Walter W. Shultz, Jr.

The Faculty Prize for General Efficiency awarded to that student of the graduating class, who in scholarship and general bearing in college matters both curricular and extra-curricular has displayed outstanding qualities of leadership and loyalty, to Richard C. Bond.

The Urology Prize of ten dollars, awarded by Dr. H. Willard Sterrett to the student judged as being the most worthy in the subject of urology, to Robert S. Roscoe. Honorable Mention to Harry Krasney and Elizabeth Mellott.

The Clinical Obstetrical Prize of twenty-five dollars, awarded on recommendation of the obstetrical staff for professional work in clinical obstetrics, to Keanneard Steigelman. Honorable mention to Kermit H. Lyman.

The Feeser Memorial Medal, awarded to that member of the graduating class for highest standing and general excellence in the basic sciences, chemistry, pathology and nervous anatomy, to Arnold Gerber.

The Bacteriology Prize of twenty-five dollars, awarded by Dr. Joseph F. Py to the member of the graduating class showing excellency in the subjects of bacteriology and preventive medicine, to Edward D. White.

PART V

THE UNDERGRADUATE SCHOOL

General Plan of Instruction

Summary of Studies

Departments of Instruction

Summary of Departments

Schedule of Classes

Textbooks

Register of Students

GENERAL PLAN OF INSTRUCTION IN OSTEOPATHY

THE course of instruction embraces a four-year graded curriculum, each session beginning the third week in September and ending the first week in June. The first two years cover the fundamental osteopathic sciences, anatomy, histology and embryology, biochemistry, physiology, pathology, bacteriology, etc. A major portion of the time is spent in practical work in the laboratories. Each class is divided into sections for laboratory work insuring adequate available equipment and greater opportunities for personal contact with instructors. During the first two years emphasis is laid upon instruction in anatomy and physiology. The anatomy of the human body may rightly be considered the basis upon which the science of osteopathy is founded. It is essential that students shall know the body in every detail. It is only through this basic consideration that the student is enabled to apply the knowledge obtained in the associated branches of the course. Physiology lays a solid foundation for practical work in the diagnosis and treatment of disease. The body is studied as a delicately-adjusted piece of machinery, every part of which must be where it belongs and must work as it should if the product and output of the machine are to come up to standard. The subjects of the second year follow in logical sequence those of the preceding year. The time of the second year is thus given over largely to bacteriology, pathology, pharmacology, physical diagnosis and the completion of the work in anatomy and physiology. At the same time the student is drilled in the fundamental principles of osteopathy preliminary to the clinical work that is to follow.

The last two years include the clinical or hospital studies, the practical subjects of osteopathy, therapeutics, surgery, obstetrics and the specialties. In the third year the student commences an intensive study in systematic osteopathy. Laboratory work, in large part, gives way to the application of the principles of osteopathy in the clinic. The student devotes approximately six hours weekly for two years to general and special clinical practice. A minimum of five hundred hours is required in actual work in the established clinics. Didactic lectures and clinics in the various subjects of osteopathy, therapeutics, surgery and the specialties round out a balanced practical curriculum. In the fourth year the work is largely clinical. With a foundation laid in the fundamental osteopathic and medical sciences, the student works under supervision in the dispensary, wards and laboratories of the Osteopathic Hospital.

It is the aim and object of the College to prepare the student for the practice of general osteopathy. Should he decide to take up a specialty after grad-

uation he will be the better prepared by his broad education. The volume of work and the character of service performed in the clinics and the hospital identified with the Philadelphia College of Osteopathy speak for themselves with respect to the range of possible training for students. It is the institution's responsibility in the preparation of students for later practice to give them all possible evidence of those actual states, conditions, disorders, that are admissible to and amenable to osteopathic treatment. In 1939, 2911 cases were treated by students in the Philadelphia Osteopathic Hospital for a total of 26,384 patient days, while approximately 50,000 treatments were given by these same students in the Out-Patient Department. There are special clinics in practically every known line of work where students receive section and small group instruction on actual cases. An augmented amount of acute work in the neighborhood of the institution is also being supervised by the staff of the Out-Patient Department. The Hospital is used for ward rounds and demonstrations of subjects of every sort. The entire work of the hospital has been so organized that practically all cases entering are considered as potential teaching cases for students of the College.

Amphitheatre clinics are held each week during the academic year. They are given separately to third and fourth year students to conform to their respective stage of development. The object is to supplement the clerkship by the presentation of the important phases of osteopathy and medicine. The backbone of the student's training is his experience with patients as amplified by reading and by contact with members of the hospital and clinical teaching staff. The head of each clinic, responsible for the care of patients and the conduct of the professional services in the Hospital, is also professor in charge of the corresponding department in the College. Each clinical department is staffed by teachers and clinicians who devote a major portion of their time to the service of the College and Hospital.

It is the contention of the College authorities that osteopathy will occupy its proper place in society to the extent that it provides leadership and properly trained personnel for the program of osteopathic service, which must be built upon thoughtfully conceived plans of osteopathic and post-graduate education. The Philadelphia College, in addition to its fundamental purpose of developing physicians of the best type, is undertaking a plan for the extension of osteopathic knowledge by means of research. It will henceforth be committed not only to conduct teaching of high order, but also to study disease and the science underlying osteopathy in order to add to osteopathic knowledge. Greatest possible liberality will be granted the well-qualified student and every opportunity afforded for additional training, after the regular undergraduate course, to lead to the development of technical and scientific proficiency in the various special fields of clinical osteopathy.

TABLE OF REQUIRED HOURS

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR	TOTAL HOURS BY DEPTS.
ANATOMY.....	208	304	...	24	856
Histology and Embryology.....	240	...	...	...
Neuro-Anatomy.....	...	48	...	...
Applied Anatomy.....	...	...	32	...	472
PHYSIOLOGY.....	208	112	...	72	
Pharmacology.....	...	80	...	...
BIOCHEMISTRY.....	256	...	...	24	336
Toxicology.....	32	...	...	...
Jurisprudence.....	...	...	...	24	
PATHOLOGY.....	...	224	32	32	448
Parasitology.....	32	...	...	...
Clinical Pathology.....	...	128	...	...
BACTERIOLOGY.....	128	80	...	24	296
Preventive Medicine.....	...	...	64	...	
OSTEOPATHIC PRINCIPLES.....	32	64	32	...	128
OSTEOPATHIC THERAPEUTICS.....	...	48	144	16	240
Comparative Therapeutics.....	...	...	...	32	
PRACTICE OF OSTEOPATHY.....	...	...	166	232	398
(Including Dermatology and Syphilology).....					
SURGERY (Including Orthopedics and Proctology).....	...	48	112	212	372
GYNECOLOGY.....	...	...	32	56	88
UROLOGY.....	...	...	16	40	72
Venereology.....	...	...	...	16	
OPHTHALMOLOGY AND OTO- LARYNGOLOGY.....	...	...	32	88	128
Bronchoscopy.....	...	...	...	8	
OBSTETRICS.....	...	...	64	56	120
PHYSIOLOGY.....	...	...	32	16	48
NEUROLOGY AND PSYCHIATRY.....	...	...	64	44	160
Psychobiology.....	16	...	...	...
Physical Therapy.....	...	...	...	36	
PEDIATRICS.....	...	...	64	16	80
CLINICAL OSTEOPATHY.....	32	64	288	128*	520
Electrocardiography.....	...	...	...	8	
TOTAL.....	1184	1200	1174	1204	4762

*Hospital Clerkships (13 weeks additional).

SYNOPSIS OF THE CURRICULUM

The following tabulation sets forth the subjects presented in each semester of the four years, comprising the full college course in each department of instruction. The descriptive title of each subject is given in parenthesis following each departmental number.

FRESHMAN YEAR**FIRST SEMESTER**

	HOURS
Anatomy I (Descriptive)	128
Anatomy II (Histology and Embryology)	160
Chemistry I (Bio-chemistry)	128
Clinical Osteopathy I (Lecture Clinics)	16
Neurology I (Psychobiology)	16
Pathology I (Parasitology)	32
Physiology I (Applied Physics)	64
Principles I (History of Medicine)	16

560

SECOND SEMESTER

Anatomy I (Descriptive)	80
Anatomy II (Histology)	80
Bacteriology I (Microbiology)	128
Chemistry I (Bio-chemistry)	128
Chemistry II (Toxicology)	32
Clinical Osteopathy II (Emergencies)	16
Physiology II (General)	144
Principles II (Fundamentals)	16

624

SOPHOMORE YEAR**FIRST SEMESTER**

	HOURS
Anatomy III (Topographical)	32
Anatomy IV (Neuro-anatomy)	48
Anatomy V (Dissection)	112
Bacteriology II (Immunology and Serology)	80
Pathology II (General)	112
Pathology III (Clinical)	32
Physiology III (Special)	112
Principles III (Advanced)	32
Therapeutics I (Fundamentals)	16

576

SECOND SEMESTER

Anatomy III (Visceral)	32
Anatomy V (Dissection)	112
Clinical Osteopathy III (History Taking)	16
Clinical Osteopathy IV (Physical Diagnosis)	48
Pathology III (Clinical)	96
Pathology IV (Special)	112
Physiology IV (Pharmacology)	80
Principles III (Advanced)	32
Surgery I (Minor)	48
Therapeutics II (Muscular Normalization)	16
Therapeutics III (Spinal Mechanics)	16

624

JUNIOR YEAR

FIRST SEMESTER

HOURS

Anatomy VI (Applied)	32
Bacteriology III (Preventive Medicine)	64
Clinical Osteopathy IV (Symptomatology)	16
Clinical Osteopathy V (Amphitheatre Clinics)	32
Clinical Osteopathy VI (Clerking Service)	96
Gynecology I (Lectures)	16
Neurology II (Lectures)	32
Obstetrics I (Normal)	32
Pathology V (Special)	16
Pediatrics I (Lectures)	16
Practice I (Infectious Diseases)	38
Practice II (Circulatory Diseases)	32
Practice III (Metabolic Diseases)	16
Practice IV (Bones, Joints)	16
Principles IV (Applied)	16
Surgery II (General)	32
Therapeutics IV (Spine and Sacro-Iliacs)	32
Therapeutics V (Section Instruction)	16
Therapeutics VI (Extremities)	16
Therapeutics VII (Bedside)	16

582

SECOND SEMESTER

Clinical Osteopathy IV (Symptomatology)	16
Clinical Osteopathy V (Amphitheatre Clinics)	32
Clinical Osteopathy VI (Clerking Service)	96
Gynecology I (Lectures)	16
Neurology II (Lectures)	32
Obstetrics I (Pathological)	32
Otolaryngology I (Rhinology and Laryngology)	32
Pathology V (Special)	16
Pediatrics I (Lectures)	16
Pediatrics II (Clinical)	32
Practice II (Circulatory Diseases)	32
Practice V (Gastroenterology)	32
Principles IV (Applied)	16
Radiology I (Diagnostic)	32
Surgery II (General)	64
Surgery III (Anaesthesiology)	16
Therapeutics IV (Spine and Sacro-Iliacs)	32
Therapeutics V (Section Instruction)	16
Therapeutics VI (Extremities)	16
Urology I (Lectures)	16

592

SENIOR YEAR

FIRST SEMESTER

	HOURS
Chemistry III (Jurisprudence)	16
Clinical Osteopathy VI (Amphitheatre Clinics)	32
Clinical Osteopathy VIII (Special Clinics)	96
Gynecology II (Clinical)	28
Neurology III (Psychiatry)	32
Neurology IV (Physical Therapy)	16
Obstetrics II (Clinical)	28
Otolaryngology II (Otology)	32
Otolaryngology III (Section Instruction)	12
Pediatrics III (Clinical)	16
Practice VI (Respiratory Diseases)	32
Practice VII (Kidney)	16
Practice VIII (Blood Diseases)	16
Practice IX (Endocrinology)	16
Practice X (Dermatology)	32
Radiology II (Therapeutic)	16
Surgery IV (Special)	64
Surgery V (Orthopedic)	16
Surgery VI (Proctology)	16
Surgery VII (Section Instruction)	12
Therapeutics VIII (Advanced)	16
Therapeutics IX (Comparative)	16
Urology I (Lectures)	16
Urology II (Section Instruction)	12

604

SECOND SEMESTER

Anatomy VII (Review Course)	24
Bacteriology IV (Review Course)	24
Bronchoscopy I (Lectures)	8
Chemistry IV (Medico-Legal Problems)	8
Chemistry V (Review Course)	24
Clinical Osteopathy IX (Electrocardiography)	8
Gynecology II (Clinical)	28
Neurology IV (Physical Therapy)	20
Neurology V (Section Instruction)	12
Obstetrics II (Clinical)	28
Ophthalmology I (Lectures)	32
Ophthalmology II (Section Instruction)	12
Pathology VI (Conferences)	8
Pathology VII (Review Course)	24
Physiology V (Applied and Clinical)	72
Practice VI (Respiratory Diseases)	16
Practice IX (Endocrinology)	8
Practice X (Syphilology)	16
Practice XI (Tuberculosis)	16
Practice XII (Differential Diagnosis)	48
Practice XIII (Art of Practice)	16
Surgery IV (Special)	64
Surgery V (Orthopedic)	16
Surgery VI (Proctology)	12
Surgery VII (Section Instruction)	12
Therapeutics IX (Comparative)	16
Urology II (Venereology)	16
Urology III (Section Instruction)	12

600

DEPARTMENTS OF INSTRUCTION

The curriculum is divided into seventeen departments of instruction representing a total of 4,762 hours, which are apportioned as shown below:

	SUMMARY OF HOURS
1. Anatomy.....	856
2. Physiology and Pharmacology.....	472
3. Chemistry and Toxicology.....	336
4. Pathology.....	448
5. Bacteriology and Preventive Medicine.....	296
6. Osteopathic Principles and Research.....	128
7. Osteopathic Therapeutics.....	240
8. Practice of Osteopathy.....	398
9. Surgery.....	372
10. Gynecology.....	88
11. Urology.....	72
12. Ophthalmology and Otolaryngology.....	128
13. Obstetrics.....	120
14. Radiology.....	48
15. Neurology and Psychiatry.....	160
16. Pediatrics.....	80
17. Clinical Osteopathy.....	520
	<hr/> 4,762

THE DEPARTMENT OF ANATOMY

GEORGE S. ROTHMEYER, D.O., M.Sc., Professor of Anatomy
 HERBERT V. DURKEE, D.O., M.Sc., Professor of Histology
 ANGUS G. CATHIE, D.O., Associate Professor of Anatomy
 ROBERT R. MOODY, M.A., Associate in Embryology
 LESTER R. MELLOTT, D.O., Associate in Anatomy
 BLANCHE ALLEN, A.B., B.E., D.O., Instructor in Neuroanatomy
 LEMAR EISENHUT, JR., D.O., Assistant in Anatomy
 ROBERT WHINNEY, D.O., Assistant in Anatomy
 THOMAS N. HAVILAND, A.B., Curator of the Museum

It is the intention of the Department to prescribe a comprehensive and thorough program of instruction in human anatomy. The courses are planned not alone to present the principles and details of human anatomy but, as well, to direct attention to the consideration of the structure of the body as fundamental in the osteopathic curative concept. Endeavor is made early to impress the student with the significance of morphological integrity and to have him correlate his knowledge of human structure with the conditions found in it.

First Year

ANATOMY I (DESCRIPTIVE). Lectures, conferences, and laboratory exercises. Dr. Cathie and assistants. Eight hours a week during the first semester

and five hours weekly the second semester. A systematic study of the anatomy of the human body covering the subjects of osteology, syndesmology, myology, angiology and neurology, designed to establish a proper regard for structural integrity as essential in the practice of osteopathy. For the work in osteology, disarticulated skeletons are issued to the students. From the start systems are built up and eventually made to tie into complete units. Conferences are held throughout the year with the idea of emphasizing to the student the direct bearing of anatomical facts upon clinical problems. At the end of each term students are required to take a single comprehensive examination covering the several divisions of the course. 208 hours

ANATOMY II (HISTOLOGY AND EMBRYOLOGY). Prof. Durkee, Dr. Cressman and assistants. Ten hours a week during the first semester and five hours a week during the second semester. These courses are introduced simultaneously. Embryology is studied by the use of stained serial sections, models and the dissection of pig, cat and chick embryos in successive stages. Lantern slides are used to supplement the laboratory material. In histology the student is afforded an opportunity to acquire a knowledge of the microscopic anatomy of the body by the study of both fresh tissue and fixed preparations, and he is trained in the method of preparing histological sections. The laboratory is supplied with standard microscopes for the use of the individual student. Demonstration apparatus is used for the projection of lantern slides and microscopic sections. 240 hours

Second Year

ANATOMY III (TOPOGRAPHICAL AND VISCERAL ANATOMY). Dr. Cathie and associates. Two hours weekly the first semester and three hours weekly the second semester. Lectures, recitations and demonstrations covering surface anatomy, landmarks and relationships of organs. Special attention is given to visceral anatomy to prepare the student for clinical applied anatomy and associated subjects of the third and fourth years. The course is illustrated by the use of charts, models, drawings and the projection apparatus. . . 80 hours .

ANATOMY IV (NEURO-ANATOMY). Lectures, demonstrations and conferences. Drs. Cathie and Allen. Three hours weekly during the first semester. A systematic course on the anatomy of the central nervous system and organs of special sense. An intimate knowledge of the fiber tracts and nuclei of the spinal cord and brain is required of the osteopathic student. The tracts are traced by means of sections, lantern interpretation of reflex pathways and the more common syndromes met with in clinical work. 48 hours

ANATOMY V (LABORATORY-DISSECTION). Drs. Cathie, Eisenhut, Whinney and assistants. Each student makes a complete dissection of the human body, two students to each cadaver, and then proceeds to dissect the human brain and spinal cord. The work is correlated with the instruction given in the didactic courses and daily quizzes and practical demonstrations are held on all phases of the discussions. Demonstrators and assistants are placed in charge of small groups at dissecting tables insuring close supervision of the work performed by students. Practical examinations are given by the Professor of Anatomy at the completion of each discussion of the subject. Emphasis is placed upon the study of cross-sections, the relationship of organs and the blood and nerve supply serving to present some of the practical considerations of anatomy in its relation to the course in osteopathy. The work in neuro-anatomy is made to cover systematically the gross divisions of the brain and spinal cord, then the fibre tracts of the cord are traced to pave the way for proper understanding and interpretation of common syndromes met in clinical work. Skeletons, models, charts, lantern, original sketches, special preparations and dissections are available as well as the resources of the Harvey School of Anatomy and the Museum. The supply of dissecting material is obtained from the State Anatomical Board and is cared for by approved methods of preservation. The spacious dissecting room has thirty tables, ideally arranged to accommodate sections of the class. It is well ventilated and lighted and every essential has been anticipated in its construction.....

.....224 hours

Third Year

ANATOMY VI (APPLIED). Two hours a week during the first semester. Lectures, demonstrations and clinics. Anatomical facts are discussed from the point of view of their application to practical problems met with by the physician. The spinal column is studied particularly in relation to the causes and effects of osteopathic lesions. Special attention is devoted to the nerve and blood supply of organs and the sympathetic system. The cranial nerves are studied individually and in their relation to one another, also in their associations with the spinal nerves proper and the sympathetic nervous system. Each segment of the spinal cord is considered as a separate entity and is viewed not only as to the distribution of the nerves having origin in it, but in its relation to other segments, its relation to the spinal column and the possibilities of being pathologically influenced by lesions in the area in which it is found. The lectures and demonstrations serve to bring together some specific aspects of anatomy in its relation to the diagnosis of disease and the practice of osteopathy.....

.....32 hours

Fourth Year

ANATOMY VII (REVIEW COURSE). Dr. Cathie. Three lectures a week for eight weeks during the second semester on the anatomy of the entire body in its relation to the practice of osteopathy and special clinical subjects. A systematic review of all anatomical facts from the point of view of their application to practical problems by the physician, as well as in preparation for state board examinations. 24 hours

RESEARCH. Opportunity is given worthy students to do original and experimental work in elective periods. Students are encouraged to take additional training under supervision in this fundamental subject to better understand their clinical work. It is proposed to have students of lower classes assigned to special topics which may be pursued during the remainder of the course.

PHYSIOLOGY AND PHARMACOLOGY

WILLIAM BALDWIN, JR., A.B., M.A., D.O., Professor of Physiology

WILLIAM C. WEISBECKER, D.O., Associate Professor of Physiology

SAMUEL LEVIN, PH.G., D.O., Associate in Pharmacology

JOSEPH W. MESSEY, M.D., Lecturer in Pharmacology

LESTER W. KENT, D.O., Fellow in Physiology

This department offers courses in osteopathic applied physics, general, special and experimental physiology. A distinctive phase of the instruction is the thorough consideration of physics as applied to the human mechanism. The work in physiology starts at the beginning of the second semester of the first year, after the courses in gross anatomy and normal histology are well under way. The course is designed not alone to cover the fundamental principles of physiology but to give the student a practical grasp of the close relationship between structure and function so that in the presence of abnormality he will employ a rational method of treatment. From the beginning the didactic lectures cover not only normal physiology but pathological physiology as interrelated to the subjects under consideration. The course in experimental physiology is designed to illustrate a wide range of pharmacologic actions, the more important drugs being considered with reference to their actions on different structures. The physiology laboratory is well equipped with modern apparatus, such as kymographs, electrical apparatus, osmometers, ophthalmoscopes, microscopes, baumanometers, blood gas pumps, colorimeters, balances, barometers, cardiographs, sphygmographs, spirometers, metabolars, and other necessary apparatus. The class is divided into small sections to insure intimate contact with instructors and proper demonstrations and conferences.

First Year

PHYSIOLOGY I (PRINCIPLES, THE APPLICATION OF PHYSICS TO PHYSIOLOGY). Prof. Baldwin. Four hours weekly the first semester of the Freshman year. Lectures and laboratory demonstrations designed to show in exacting detail the application of fundamental mechanical principles to the human body.

The body is considered as a physical mechanism, in which the principles operative in it are similar if not identical to those in a rigid machine. The subject matter is outlined with a view to preparing the student for the proper consideration of human physiology in its relationship to anatomy in the osteopathic concept. The physiology of muscle is the concluding subject of the session. 64 hours

PHYSIOLOGY II (GENERAL). Prof. Baldwin, Dr. Weisbecker and associates. Lectures, demonstrations, conferences and laboratory work. Nine hours a week during the second semester of the Freshman year. A study of the principles of general physiology is undertaken to acquaint the student with the more fundamental concepts underlying mammalian physiology. Simple experiments on frogs and work on mammals are designed to give the student a first-hand knowledge of the subject over as broad a field as possible. An orderly survey of blood and lymph, circulation, respiration, secretion, nutrition, heat production and regulation, and reproduction rounds out the work of the second semester of the year. Each topic is approached from a distinctly osteopathic standpoint. The normal structure is taught as the framework for normal function. The instruction is designed to enable the student to understand the abnormal manifestations that present themselves in clinical and bedside work. The lectures are illustrated by lantern slides, diagrams and specially prepared specimens, and are supplemented by experimental work in the laboratory. As far as practical, observations are made upon the human body so the student will learn to employ methods which will be of service to him in his clinical work. 144 hours

Second Year

PHYSIOLOGY III (SPECIAL). Prof. Baldwin, Dr. Weisbecker and associates. Seven hours a week during the first semester. Lectures, laboratory and conferences. The physiology of nerve, the central nervous system, the special senses, metabolism and endocrines is correlated with the instruction undertaken in neuro-anatomy and in bio-chemistry. The class is divided into small sections to insure intimate contact with instructors and proper demonstration and conference. The equipment is such that each student is provided with necessary apparatus for the performance and record of a number of the cardinal experiments in physiology. In addition to these the instructor in charge will demonstrate experiments in which more complicated apparatus is needed. Emphasis is laid upon accurate observation and logical conclusions drawn from the experiments. 112 hours

PHYSIOLOGY IV (PHARMACOLOGY). Dr. Levin and associates. Lecture and laboratory. The preparation of the more important drugs and the action of each on the individual organ or functions of the body are studied in detail, the subject matter of the lectures being correlated with the laboratory work. Students work in the laboratory in small groups. A distinguishing feature of the instruction throughout is the comparative study of accepted osteopathic procedures with the use of general drug medication. 80 hours

Fourth Year

PHYSIOLOGY V (APPLIED AND CLINICAL). Prof. Baldwin in collaboration with the Department of Chemistry. Three hours weekly during the first eight weeks and six hours weekly during the last eight weeks of the second semester. During this course the basic principles of physiology and chemistry are reviewed and special attention is given to the application of these principles to practical clinical problems. The course therefore serves a twofold purpose—first, a review of the subject matter intended to prepare the student for state board examinations, secondly, a correlation of clinical knowledge with the basic sciences and the interpretation of clinical and laboratory findings in the diagnosis and treatment of disease. 72 hours

RESEARCH. Students are encouraged to devote full time in the later years to research problems and the department makes available necessary equipment for the investigation of such problems.

GRADUATE COURSES. Post-graduate work may be done at stated periods during the calendar year by making suitable arrangements with the Dean.

CHEMISTRY AND TOXICOLOGY

RUSSELL C. ERB, B.S., M.S. in CHEM., F. A. I. C., Professor of Chemistry and Toxicology

EUGENE M. COFFEE, D.O., Professor of Medical Jurisprudence

KENNETH L. SENIOR, B.S., Associate Professor of Chemistry

FLOYD L. KEFFORD, A.B., Associate in Chemistry

The Department of Chemistry presents courses in bio-chemistry and physiological chemistry so planned and executed as to afford a maximum of practical assistance to the graduate in osteopathy. Great stress is placed upon the chemistry of the metabolic processes of the body during disease. A prerequisite of all students consists of a thorough understanding of the fundamentals of general and organic chemistry as taught in an accredited college of liberal arts. The method of instruction is actuated by the premise that thorough knowledge of body chemistry is essential in the making of a discerning intellectual physician.

First Year

CHEMISTRY I (PHYSIOLOGICAL). Professor Erb and associates. Lectures, demonstrations, quizzes and laboratory instruction. The course is initiated by a presentation of the basic chemistry of the colloidal cell and its relationship to the chemistry of the living organism. Later, the human body is given detailed consideration, both under normal and pathological conditions. The chemistry of the carbohydrates, proteins and lipides is followed by the chemistry of digestion. Absorption, intermediate and terminal metabolism, nutrition, muscular activities, tissues, bone, blood, synovial fluid, acidosis and other physiological processes are taken up in a systematic manner. Recent advances in biochemistry as related to disease are presented with frequent references to current literature and the work of modern scientists in the various established research centers. Clinical analyses of tissue, milk, blood, urine, feces, gastric contents, etc., are the practical phases of the course. A study is made of the errors that may be made in the so-called clinical analyses. To this end, comparable methods are investigated. The course in physiological chemistry offers opportunities in research on the chemical effects produced in the body by osteopathic manipulation.....256 hours

CHEMISTRY II (TOXICOLOGY). Prof. Erb and associates. Lectures and laboratory work two hours a week throughout the first semester. A systematic study of the more common poisons, their occurrence, effects, detection, symptoms and treatment. Chronic poisoning due to the complexity of modern civilization is discussed. Industrial poisoning is given great weight as a possible factor in the causes of many present-day illnesses.....32 hours

Fourth Year

III. JURISPRUDENCE. Dr. Coffee. One lecture weekly during the first semester explaining the legal responsibilities of the general practitioner, the relations of the physician to the state, to the community, to the hospital and to his patients.....16 hours

IV. MEDICO-LEGAL PROBLEMS. Prof. Erb. Lectures and illustrations. A short course for the graduating class designed to assist them in problems involving suspicious cases of sudden death. Methods by which the physician can be of assistance to the coroner and other investigators are given. Cases involving suspicious drownings, burnings, asphyxiations, poisonings, gun-shot wounds are discussed.....8 hours

CHEMISTRY V (REVIEW COURSE). Profs. Erb and Senior. Three hours for eight weeks during the second semester. This course consists of a thorough

review of general chemistry including organic and bio-chemistry in preparation for the various state board examinations.....24 hours

RESEARCH. Provisions are made for qualified students to engage in experimental investigation and advanced work. All such research involving chemistry will be conducted under auspices of the Chemistry Department in cooperation with the department of research. Research of an industrial nature is being conducted by the Department on the potentiometric method for determining the gastric pH. New methods and instruments for gastric research have been developed. Gastroenterological research work is being done in collaboration with the Department of Clinical Osteopathy.

GRADUATE WORK. Properly qualified investigators wishing to pursue research may have the ample resources of the department placed at their disposal. Graduate courses are so organized that the individual needs of the students are fully met.

PATHOLOGY

OTTERBEIN DRESSLER, D.O., M.Sc., Professor

CLARENCE BALDWIN, D.O., Associate

LOIS SCHANTZ, D.O., Demonstrator

MITCHELL BRODKIN, Ph.G., D.O., Instructor

VICTOR R. FISHER, D.O., Instructor

SIMON GREEN, Ph.G., D.O., Assistant

WILLIAM L. SILVERMAN, A.B., D.O., Assistant

WALDO B. MILLER, D.O., Fellow

SIDNEY M. WEITBERG, A.B., D.O., Fellow

GERTRUDE NOAR, D.O., Fellow

HAROLD R. GREEN, D.O., Fellow

PHILIP CUTLER, D.O., Fellow

Under this department are grouped the subjects of general, special and clinical pathology. Throughout the entire course by lectures, gross demonstrations and by sketching the histological details the student is trained to correlate pathology with signs and symptoms as a basis for further clinical study. The Department is organized to demonstrate gross specimens and to exhibit drawings, charts, lantern slides, etc., for special departments. In the third and fourth years autopsies are performed as obtainable and post-mortem technique is taught. Section instruction is carried out to systematically cover a number of pathologic conditions. Every attention is given to practical consideration of all subjects.

First Year

PATHOLOGY I (PARASITOLOGY). Prof. Dressler and assistants. Two hours a week during the first semester. Lectures illustrated with lantern slides and gross specimens. A systematic course dealing with parasitic causes of disease. Recitations will be given from time to time upon the lectures and demonstrations.....32 hours

Second Year

PATHOLOGY II (GENERAL). Prof. Dressler and assistants. Lectures, demonstrations and laboratory work. Seven hours a week during the first semester. A systematic course devoted to the gross and microscopic study of the general pathologic processes, embracing the various retrograde and progressive elementary pathological changes, regeneration, inflammation, the specific inflammations, tumor formation, malformations, etc. In so far as possible each subject is covered in lecture and laboratory on the same day. In the laboratory the student makes an extensive study of diseased tissue under the microscope. Paraffin, cellodin and frozen sections are given to the student for microscopy. Museum specimens and a complete series of histological preparations are available for inspection and study. Many important processes are taught by projection. The demonstration of the gross features by the staff correlates and simplifies the didactic and laboratory work. The case history, physical findings at operation, and means of determining the diagnosis are reviewed with each slide studied. The fundamental principles of post-mortem examinations are demonstrated in this year 112 hours

PATHOLOGY III (CLINICAL). Prof. Dressler and assistants. Lectures, demonstrations and laboratory work. This course is introduced during the first semester of the second year by a series of lectures and demonstrations covering the field of laboratory diagnosis. The principles and tests learned in biochemistry, bacteriology, pathology and physiology are applied to examinations of the blood, urine, feces, gastric contents, spinal fluid, exudates, transudates, etc. Particular emphasis is placed upon the clinical interpretation of the results from such examinations and the correlation of physical, clinical and laboratory findings into diagnosis. This section of the course occupies two hours weekly. The laboratory work consists of six hours a week for one semester (either second semester Sophomore or first semester Junior year) in the clinical laboratory. Here all the laboratory examinations on clinic patients are performed by the student under supervision of members of the Department 128 hours

PATHOLOGY IV (SPECIAL). Prof. Dressler and assistants. Lectures, demonstrations and laboratory seven hours weekly during the second semester covering diseases of the various organs of the body considered by systems with particular reference to the pathological physiology of each and the development of symptoms of disease. The instruction is closely correlated with the teachings in the various special departments, and demonstrations of specimens, slides and sketches are presented by the pathologist during the lecture courses in these departments. Stock slides are used by the student to

illustrate the essentials of special pathology. Fresh specimens from operations or autopsies are presented. A technician is on hand at all times to demonstrate gross pathology and to cut tissue sections 112 hours

Third Year

PATHOLOGY V (SPECIAL). Prof. Dressler and assistants. Lectures and demonstrations one hour weekly for a full year. This course is a continuation of Pathology IV. It is planned with the dual purpose of keeping the student's mind on scientific principles in the study of disease while offering an opportunity to present more advanced work in the subject 32 hours

Fourth Year

PATHOLOGY VI (CONFERENCES). Members of the Senior Class are required to report in small groups at scheduled hours for conferences and demonstrations of surgical, gynecological, obstetrical, ophthalmological and neuropathology. Stock specimens and fresh material from recent operations are presented to permit the student full opportunity to follow through surgical cases to the actual pathology and to correlate the findings with the symptoms manifested previous to operations 8 hours

PATHOLOGY VII (REVIEW COURSE). Prof. Dressler. Three hours weekly for eight weeks commencing about April 1. A systematic review of general, special and clinical pathology to prepare the student for state board examinations 24 hours

HOSPITAL INSTRUCTION. Students of the fourth-year class are required to make examinations of material from cases in the hospital or the college clinic. They perform routine and special examinations of urine, blood, sputum, feces, etc., under direction of a qualified pathologist. Blood chemistry, basal metabolism, clinical bacteriology and autopsy work are considered in correlation with the findings of the surgeon and clinician in cases presented.

AUTOPSIES. Pathology Staff. During the Junior and Senior year, groups of students are required to see and assist in post-mortem examinations. Specimens of the tissues from each autopsy are prepared by the students under supervision and conferences are held with the instructors, when the whole case is reviewed and discussed. The clinical history of the case is read and as far as possible the pathological findings are correlated with the clinical features.

RESEARCH. Facilities are available in this department for properly qualified students to receive advanced instruction and to investigate for themselves problems in pathology and chemical pathology.

GRADUATE COURSES. Opportunity is afforded to those suitably trained to pursue advanced work and to undertake special investigations. Close association is maintained between this department and the Department of Bacteriology so as to facilitate instruction and research in these closely allied subjects.

BACTERIOLOGY AND PREVENTIVE MEDICINE

JOSEPH F. PY, D.O., M.Sc., Professor

J. K. MILLER, D.D.S., Lecturer

JACOB RAPP, D.O., Demonstrator

HARRY E. BINDER, D.O., Instructor

HELEN ELLIS, D.O., Assistant

HAROLD BRUNER, D.O., Assistant

GEORGE S. ESSAYIAN, D.O., Fellow

This department offers instruction in medical microbiology, hygiene and sanitation. The instruction is designed to meet the requirements of the general practitioner in these important fields. The subject matter is presented by lecture and laboratory assignments presented in such a way so as to correlate microbiology and preventive medicine with that which is dealt with by other departments and particularly associating the work with the philosophy and principles of osteopathy. Tours of inspection and educational correlation are made to selected plants and institutions to illustrate the general principles of public health and sanitation.

First Year

BACTERIOLOGY I (MICROBIOLOGY, GENERAL AND MEDICAL). Prof. Py and associates. A laboratory course supplemented by introductory lectures, type slides, demonstrated and group conferences. Eight hours a week during the second semester. The course deals systematically with general microbiology and medical microbiology stressing medical microbiology and the relative significance of pathogenic micro-organisms as disease exciters. The practical work embraces the making of media; the study of saprophytic and pathogenic micro-organisms; their biochemical activity; and their behavior on differential media; training in the principles of disinfection and sterilization; identification and classification of microbial species; simple and differential staining procedures; the study of morphological and biological characteristics; examination of pus, sputum, excretions, etc., correlating the findings with the clinical objective and subjective factors presenting in the case studies made at the time the specimens are obtained; and the microbiological study of air, water, and milk. Recitations up on the work covered are held from time to time.....128 hours

Second Year

BACTERIOLOGY II (IMMUNOLOGY AND SEROLOGY). Prof. Py and associates.

A laboratory course supplemented by recitations and conferences. Five hours a week during the first semester. The student receives instruction in the principles of immunity mechanism of natural and artificial immunization; practical application of immunizing biologicals; examination of sera of clinical origin and their relative interpretation in diagnosis and biological therapeutics a comparative study carried out considering all phases of biologicals and their actual practical value stressing those that are specific and analysing those that are not.....80 hours

Third Year

BACTERIOLOGY III (PREVENTIVE MEDICINE). Drs. Py, Miller and associates. Lectures, demonstrations and laboratory work comprising personal, industrial, public and educational hygiene. The course systematically covers the principles of the science of preventive medicine and their application to the individual and to the community. The study of air, ventilation; water, food, milk supply, contact transmission; general measures of disease control; disinfection; quarantine; general principles of transmissible diseases; insect-borne diseases; lower animals as sources of infection; occupational diseases; industrial sanitation; hygiene of infancy and childhood; heating and ventilation; personal hygiene; demography; public health administration; social and medical measures; school inspection, etc. Exercises in the laboratory are supplemented by excursions to various industrial institutions for practical inspection of sanitary work. The sanitary trips consist of visits to a vaccine and antitoxin laboratory, to a dairy, to sewage disposal plants, to other hospitals, etc. The course is concluded with special lectures on oral hygiene and the relationship of dental infections to systemic disease.....64 hours

Fourth Year

BACTERIOLOGY IV (REVIEW COURSE). Prof. Py and associates. A systematic review of the ground work of general and medical microbiology, and a series of conferences and recitations covering the wide field of instruction in preventive medicine.....24 hours

RESEARCH. A limited number of suitably qualified students will be permitted to do work in research problems of bacteriology and immunology under supervision of members of the staff and in collaboration with the Department of Osteopathic Research.

GRADUATE COURSES. Work in research problems of bacteriology and immunology is offered a limited number of students. The laboratory offers all the advantages of its facilities for the investigation of problems. Oppor-

tunity for work in this department will be accorded only to graduate students who can devote the major part of their time to this field. The facilities of the hospital laboratory are available for the gaining of practical experience under supervision.

OSTEOPATHIC PRINCIPLES AND RESEARCH

FREDERICK A. LONG, D.O., M.Sc., Professor and Director of Research

PHILIP LESSIG, A.B., M.A., D.O., Lecturer in History of Medicine

GUY DEMING, A.B., D.O., Assistant in Osteopathic Research

The Philadelphia College of Osteopathy offers exceptional opportunities for qualified students to do research work. All the advantages of the facilities and equipment of laboratories and clinics are made available for the investigation of problems. In 1932 announcement was made of the establishment of a separate and distinct Department of Research woven around the previously identified Department of Principles. Heretofore the various science and clinical departments carried out their investigations without regard to an organized central office. In the new program, while departmental problems will not be disturbed, there will be a clearing house for records of all activities as well as a tie-in for problems involving general research fields. Encouragement will be given for student participation not alone in laboratory investigations but as well in the application of certain principles which he has studied in his lower classes to specific problems of disease in the human.

First Year

PRINCIPLES I (HISTORY). Dr. Lessig. One lecture weekly during the first semester. The course has been planned with the idea of providing a background of historical interest for the student of osteopathy. The varying conceptions of medicine in times past are first reviewed. Then with the inception of osteopathy with its revolutionary tenets there follows a narration of facts relating to the remarkable progress of this new healing art 16 hours

PRINCIPLES II (FUNDAMENTALS). Prof. Long. Didactic lectures and demonstrations. One hour weekly during the second semester. The object of this course is to familiarize the beginning student with the basic principles of the osteopathic concept 16 hours

Second Year

PRINCIPLES III (ADVANCED). Prof. Long and Dr. Deming. Didactic lectures, demonstrations and recitations. Two hours weekly throughout the entire year. The course proceeds to elaborate on fundamental theories and propositions and then to consider in orderly, coordinated manner the many demonstrable facts underlying the art and science of osteopathy. Throughout, the work is designed to stress the importance of the basic sciences in their relationship to clinical problems to follow 64 hours

Third Year

PRINCIPLES IV (APPLIED). Prof. Long and assistants. One lecture weekly throughout the year. The instruction is designed to show the student the application of various fundamental principles. Suitable cases are taken from the wards of the Hospital or from the Out-Patient Department and discussed before the class. 32 hours

RESEARCH. Suitably qualified students will be given opportunity to participate in the investigations being conducted in the various laboratory and clinical departments. All such student work will be done under auspices of the Professor of Principles and Research. Active collaboration between this department and all science and clinical departments has been established to insure correlation and intimate understanding

OSTEOPATHIC THERAPEUTICS

C. HADDON SODEN, D.O., M.Sc., Professor and Head of the Department

PETER H. BREARLEY, D.O., M.Sc., Professor

JOHN H. EIMERBRINK, D.O., Associate Professor

D. E. STOMBAUGH, D.O., Assistant Professor

RAY F. ENGLISH, D.O., Lecturer

JAMES A. FRAZER, D.O., Associate

IGNATIUS MCCORMICK, D.O., Instructor

WARREN E. BALDWIN, D.O., Instructor

DAVID SHUMAN, D.O., Instructor

GEORGE HYLANDER, D.O., Assistant

JACOB L. LEBOW, P.D., D.O., Assistant

JOHN J. LALLI, D.O., Clinical Assistant

THEODORE C. LOUX, D.O., Clinical Assistant

NORMAN LABOVE, D.O., Clinical Assistant

MARCONI J. D'ELIA, D.O., Clinical Assistant

The instruction given by the Department of Osteopathic Therapeutics begins in the Sophomore year and is arranged so that the student proceeds systematically into every phase of the principles and procedures involved in handling disease from the osteopathic viewpoint. From the start effort is made to show the important relationship of the basic sciences to osteopathy and especially to emphasize the part played by disturbances of normal anatomy and physiology. Demonstrations are given on carefully selected subjects to enable the student to have tangible evidence of some of the fundamental facts upon which osteopathic reasoning is based. Students early begin contact with patients to establish a suitable background for subsequent clinical studies. Consideration is given first to the normal so that departures from it may be more readily appreciated. During the third and fourth years a staff of highly skilled technicians impart to the student all known methods and procedures comprising osteopathic diagnosis and technique. A large number of instructors and rotation of small sections of the

class insure intimate contact for each student with his teachers. Starting with simple measures worked out and endorsed by the entire staff, the instruction leads purposefully to diversified methods peculiar to the art of technique.

Second Year

THERAPEUTICS I (FUNDAMENTALS). Prof. Soden. One hour a week during the first semester. An introductory course emphasizing the principles of mechanics and their application to the human body. The structure of the spine and its physiological movements are painstakingly considered. 16 hours

THERAPEUTICS II (MUSCULAR NORMALIZATION). Prof. Soden and Dr. Eimerbrink. One hour weekly during the second semester. 16 hours

THERAPEUTICS III (SPINAL MECHANICS). Prof. Soden and staff. Two hours weekly during the second semester. The class is divided into small sections to insure close contact with the demonstrators and practical instruction is given on the living subject. Palpation of spinal tissues, recognition of bony landmarks, normal range of articular motion, etc., are the subjects considered. 16 hours

Third Year

THERAPEUTICS IV (SPINE AND SACRO-ILIACS). Prof. Soden. Lectures and demonstrations two hours per week throughout the year. Palpation, symptomatology, diagnosis and principles of osteopathic technique applied to the spine and sacro-iliacs. 64 hours

THERAPEUTICS V (SECTION INSTRUCTION). Drs. Soden, Eimerbrink, Frazer, McCormick, Shuman, Baldwin, Hylander, Lebow, Loux, LaBove and D'Elia. One hour weekly throughout the year. The class is divided into sections for practical demonstrations of the principles taught in the didactic hours. The sections are made to rotate so that each student comes under the supervision of the various members of the staff, thus assuring uniform understanding of standard methods. This is furthered by regular conference hours of both students and instructors. 32 hours

THERAPEUTICS VI (EXTREMITIES). Dr. Eimerbrink. Lectures and demonstrations. One hour per week throughout the entire session. The course systematically covers the shoulder-joint, elbow, wrist, hand, hip, knee, ankle, and foot. Pathology, diagnosis and corrective technique are correlated with clinical findings. The student is trained to visualize the anatomy and the movements involved and to reason in terms of mechanical principles. Abundant clinical material is furnished by the out-patient department. . . . 32 hours

THERAPEUTICS VII (BEDSIDE). Dr. Frazer. One hour per week during the first semester. Demonstrations of methods pertaining to home and institutional cases with all environmental and other factors and conditions taken into consideration. The class is divided into small groups to insure closest attention to principles and methods. 16 hours

Fourth Year

THERAPEUTICS VIII (ADVANCED). Drs. Soden, Brearley, Eimerbrink, Stombaugh, McCormick, Frazer, Shuman, Hylander, Lebow, and Baldwin. One hour a week during the first semester. An orderly review in sections with rotating supervision. With his clinical experience of the third year as a basis, the student is now required to demonstrate his understanding of manipulative measures. The broadest possible training in technique is assured by the rotation of sections under qualified instructors. 16 hours

THERAPEUTICS IX (COMPARATIVE). Dr. English. One hour per week the entire fourth year. A lecture course comprising a therapeutic classification of drugs, therapeutic indications and action, and method of administration. The course is designed to give the student a grasp of the comparative effectiveness of osteopathic methods over treatment with drugs in various diseases. . 32 hours

THERAPEUTICS (ANESTHESIA-REDUCTION). Prof. Soden. Selected cases requiring correction or reduction under anesthesia are demonstrated before the students. Indications and contraindications involved in considering this method are discussed, and cases are returned at subsequent clinics to show evidence of results obtained.

HOSPITAL INSTRUCTION. Students of the Senior class act as subinterns in the Osteopathic Hospital, where patients are assigned to them for osteopathic treatment under direction of the attending staff and resident physician. Each student devotes a period of thirteen weeks to hospital training comparable to that received by interns.

GRADUATE COURSES. A limited number of suitably qualified practitioners may make arrangements with the Dean for advanced courses covering brief intensive periods.

PRACTICE OF OSTEOPATHY

RALPH L. FISCHER, D.O., M.Sc., Professor and Head of the Department

WILLIAM S. NICHOLL, D.O., D.Sc., Professor of Art of Practice

EDWIN H. CRESSMAN, D.O., M.Sc., Professor of Dermatology and Syphilology

EARL H. RICEMAN, D.O., Associate in Gastroenterology

WILLIAM F. DAIBER, D.O., Associate in Practice
 LEO C. WAGNER, D.O., M.Sc., Associate in Practice
 GUY W. MERRYMAN, B.S., D.O., Associate in Gastroenterology
 WILLIAM BARNHURST, D.O., Instructor in Hematology
 JOSEPH C. SNYDER, B.S., D.O., Assistant in Gastroenterology
 EARL T. SCALLY, D.O., Assistant in Gastroenterology
 ANNA M. DUNLEVY, D.O., Clinical Assistant in Dermatology
 WESLEY ROWE, D.O., Fellow in Practice

The course in practice of osteopathy is planned to have principles and theoretical phases blend in with clinical and bedside training in orderly and coordinated sequence. The instruction is designed to carry the student in a systematic way through every phase of practice. In the third year the more common general diseases of the various systems are covered in didactic and clinical lectures. At the same time the student enters upon clinical clerking service in the general dispensary. In the fourth year orderly and coordinated lectures serve to correlate and amplify the information gained in the clinics and at the bedside. The aim of the department is to give the student a well-rounded, practical training in the general field of osteopathy. Formal conferences, recitations, collateral reading, and close cooperation with the departments of clinical osteopathy and clinical pathology insure the individual student a well-balanced program of instruction.

Third and Fourth Years

PRACTICE I (INFECTIOUS DISEASES). Dr. Wagner. Lectures and clinics embracing the etiology, symptomatology, diagnosis and treatment of the more common infectious diseases. Students of the third-year class also spend two afternoons at the Municipal Hospital, where they are shown a large number of cases of the various contagious diseases. 32 hours

PRACTICE II (CIRCULATORY SYSTEM). Prof. Fischer and Dr. Daiber. Didactic lectures and demonstrations embracing the diseases of the heart and circulatory system. The aim of clinical lectures and demonstrations is the application of methods as given in physical diagnosis of the second year to the study of abnormal signs. 64 hours

PRACTICE III (METABOLIC DISEASES). Dr. Riceman. One hour weekly during the first semester of the third year. A lecture and demonstration course dealing with disorders of metabolism, food-deficiency diseases and problems of nutrition. 16 hours

PRACTICE IV (BONES AND JOINTS, MUSCLES, ETC.). Lectures and demonstrations once weekly during the first semester of the third year, embracing diseases of the joints and bones, diseases of muscles and myopathies without obvious change in the nervous system. 16 hours

PRACTICE V (GASTROENTEROLOGY). Lectures and demonstrations. Drs. Riceman, Snyder and associates. Two hours weekly during the second semester. This course covers the necessary fundamental knowledge of diseases of the alimentary tract; the anatomy and physiology of the stomach and intestinal tract are reviewed; then the etiology, pathology, diagnosis and treatment of various gastro-intestinal affections are considered. Special attention is given to complete histories and physical examinations. The work is carried on through demonstration of patients who are undergoing treatment. Each student attends some of the subjects in the out-patient department. .32 hours

PRACTICE VI (RESPIRATORY DISEASES). Drs. Fischer and Daiber. Lectures, clinical conferences. Twice a week during the first semester and once weekly the second semester of the fourth year. The didactic work embraces lectures and oral quizzes on the etiology, diagnosis and treatment of the diseases of the respiratory system with the exception of tuberculosis. In the dispensary small sections are instructed in the elicitation of abnormal signs.48 hours

PRACTICE VII (DISEASES OF THE KIDNEY). Dr. Daiber. One lecture weekly during the first semester of the fourth year covering those considerations of the kidney not covered in the special department of urology. .16 hours

PRACTICE VIII (BLOOD DISEASES). Dr. Barnhurst. One hour weekly during the first semester of the fourth year. A lecture and demonstration course dealing with the anemias, diseases of the blood-forming organs, the hemorrhagic diseases, etc.16 hours

PRACTICE IX (ENDOCRINOLOGY). Drs. Fischer and Riceman. One lecture or clinical demonstration a week throughout the fourth year on diseases of the ductless glands.24 hours

PRACTICE X (DERMATOLOGY AND SYPHILOLOGY). Dr. Cressman. Lectures and clinic demonstrations. Twice weekly throughout the Senior year. Theoretical and practical instruction in the etiology, diagnosis and treatment of the more common skin diseases met in general practice, and clinical lectures and demonstrations emphasizing the diagnostic and therapeutic problems of syphilis.48 hours

PRACTICE XI (TUBERCULOSIS). Drs. Fischer and Daiber. Lectures and clinical teaching. One hour weekly during the second semester of the fourth year. A course in case examination, history taking, the methods of eliciting symptoms and their interpretations and the general clinical manifestations of tuberculosis.16 hours

PRACTICE XII (DIFFERENTIAL DIAGNOSIS). Prof. Fischer and Dr. Daiber. Three hours a week during the second semester of the fourth year. The Head of the Department conducts these lectures for the special purpose of training the student's power of observation in recognizing the meaning of the objective signs of disease. 48 hours

PRACTICE XIII (ART OF PRACTICE). Ethics, Economics, and Psychology. Dr. Nicholl and Visiting Lecturers. A series of lectures by experienced physicians from the field during the second semester on ethics in practice, conduct of an office, institutions, insurance, psychology applied to practice, etc. 16 hours

SURGERY

D. S. B. PENNOCK, M.D., D.O., D.Sc., Professor and Head of the Department
 EDWARD G. DREW, D.O., D.Sc., F. A. C. O. S., Professor of Clinical Surgery
 FRANCIS J. SMITH, D.O., M.Sc., Professor of Anaesthesiology
 HARMAN Y. KISER, D.O., Assistant Professor of Surgery
 JAMES M. EATON, D.O., Assistant Professor of Surgery
 CARLTON STREET, D.O., M.Sc., Associate in Regional Surgery
 MICHAEL COLEMAN, D.O., Associate in Proctology
 ENRIQUE VERGARA, D.O., Demonstrator of Proctology
 FRANCIS R. O'BRIEN, D.O., Assistant in Proctology
 GALEN YOUNG, D.O., Assistant in Surgery

The instruction in surgery begins in the second year and extends over three years. During the second year, bandaging and emergencies, minor surgery and the principles of surgery are taught. During the third year, general and operative surgery are studied; while in the fourth year instruction is devoted to special, orthopedic and clinical surgery. Intimate contact with clinical cases is assured by surgical clerkships in the wards of the Osteopathic Hospital. Patients are assigned to senior students, who are responsible for the history, physical and laboratory examinations, operative and post-operative records, and the progress of the case under the direction of the resident physician and the attending staff. The proper osteopathic care of the patient after operation is emphasized. In the laboratory practical exercises are performed covering the more common surgical conditions encountered.

Second Year

SURGERY I (MINOR). Lectures and demonstrations. Dr. Eaton. Two hours a week during the second semester. The students are taught the underlying use of bandages, dressings, splints and their application, and the means employed in giving intelligent first aid to the injured and in common accidents and emergencies. Then follow other elementary subjects and an introduction to clinical problems. The student is thoroughly drilled in the principles of asepsis, antisepsis, sterilization, dressings, sutures, ligatures, the technique of the operating room, instruments used in surgery, etc. 48 hours

Third Year

SURGERY II (GENERAL). Lectures and operative clinics. Prof. Pennock and Drs. Drew and Kiser. The course is designed to ground the student in the principles underlying diagnosis and treatment. The work comprises a series of lectures and demonstrations on surgical trauma and infections, wound repair, hemorrhage and shock, tumors, aneurysm, diseases of bones and joints, fractures and dislocations. Cases are presented and discussed and operations performed, giving the student an intelligent grasp of the purpose and design of operative procedure and enabling him to become familiar with the fundamental principles of anesthesia, asepsis, the control of hemorrhage, careful surgical technique, operative indications, methods of operation, post-operative care, etc. 96 hours

SURGERY III (ANESTHESIA). Lectures and demonstrations. Dr. Smith and assistants. One period a week during the second semester supplemented by assignment of all members of the class to actual cases. The instruction is made to cover the general physiology of anesthesia; the various methods for producing general anesthesia; the selection of the anesthetic; the methods of administration; the problems confronting the anesthetist; guides during the anesthesia, methods of resuscitation, etc. 16 hours

Fourth Year

SURGERY IV (SPECIAL). Lectures and Conferences. Drs. Pennock, Drew and associates. A systematic course dealing with regional surgery, including the study of gross pathology, surgical diagnosis and differential diagnosis. Dr. Pennock takes up visceral operations, amputations and the surgery of the head and spine, face, mouth, jaws, neck, abdomen and extremities. The instruction on the surgery of the chest is given in collaboration with the Professor of Diseases of the Chest. Clinical lectures are delivered during the performance of various operations with emphasis placed on diagnosis, treatment and after care. 128 hours

SURGERY V (ORTHOPEDIC). Drs. Pennock and Eaton. Lectures and demonstrations. One hour weekly throughout the year. There are a number of formal exercises in this subject, which serve as an introduction to the clinical work. The course covers instruction in tuberculosis of bones and joints, spinal deformities, congenital malformations, traumatic and acquired deformities, etc., and the use and application of orthopedic apparatus. The clinic material available includes all classes of orthopedic cases. 32 hours

SURGERY VI (PROCTOLOGY). Lectures, demonstrations and clinics. Drs. Coleman and Vergara. One lecture weekly during the first semester, accom-

panied by section instruction throughout the entire year. The anatomy and physiology of the rectum are reviewed, then the etiology, pathology, diagnosis and treatment of various rectal affections are considered. The dispensary is equipped with all needed instruments and apparatus to reveal important clinical phases. Emphasis is laid upon purely osteopathic points in etiology and therapeutics. Senior students in small groups act as assistants in the proctological clinic. X-ray films and lantern slides are used to supplement the instruction in the pathology of the rectum. 28 hours

SURGERY VII (SECTION INSTRUCTION). Drs. Pennock, Kiser and Eaton. Small sections of the class are assigned to the wards of the hospital and to the out-patient surgical department. Students assist in the care of patients, observe and assist in operations and in the application of dressings, give anesthetics, are taught to recognize and treat complications, observe the reduction of fractures and dislocations, etc. 24 hours

CADAVERIC SURGERY. In the dissecting room, small sections of the class receive practical instruction in the treatment of surgical cases, including fractures, dislocations, appendectomies, minor surgery, amputations, ligations, the use and care of instruments, applications of dressings.

CLERKSHIPS (13 WEEKS). Sections of the class act as clerks in the Osteopathic Hospital. Patients are assigned to these Senior students, who are responsible for the history, general physical and laboratory examinations and for progress record under the direction of the resident physician and the attending staff. The clinical clerk also gives osteopathic treatments under supervision; he attends ward walks, observes at operations and in the dressing of cases; receives first-hand instruction in giving anesthetics, etc.

SURGICAL PATHOLOGY (SECTION INSTRUCTION). By arrangement with the pathological department, weekly conferences are devoted to demonstrations of microscopic and macroscopic material removed at operation.

GYNECOLOGY

EDWARD G. DREW, D.O., D.Sc., F. A. C. O. S., Professor

CARLTON STREET, D.O., M.Sc., Assistant Professor

JOSEPH L. SIKORSKI, D.O., Instructor

ARTHUR M. FLACK, JR., A.B., D.O., Instructor

WILLIAM STAUFFER, D.O., Clinical Assistant

DEWAINE GEDNEY, D.O., Fellow

The required work in gynecology consists of didactic lectures, section conferences, laboratory demonstrations, operations and clerkships. During the third year the course consists of lectures on the common gynecological lesions. In the fourth year the instruction is largely practical to small sections of four to six students in the dispensary and wards of the Hospital.

Third Year

GYNECOLOGY I Lectures and clinical conferences. Prof. Drew and Dr. Flack. One hour weekly throughout the year covering the principles of gynecology. The course is introduced by a thorough review of the anatomy and physiology of the tract, then the theory and practice of the common diseases of women are systematically presented to prepare the student for the practical work of the fourth year. The didactic work is supplemented by clinical demonstrations.....32 hours

Fourth Year

GYNECOLOGY II (CLINICAL). Prof. Drew. The instruction consists of clinical lectures and diagnostic and operative clinics. The student is drilled in history taking, methods of examination, diagnosis, the use of gynecological instruments, operative technique and any post-operative procedures which may be indicated. In small sections each student receives individual instruction in physical examination and in gynecological therapeutics....56 hours

WARD ROUNDS. Practical instruction in the technique and interpretation of pelvic examinations, demonstrations of selected operations. The student is given the opportunity to observe the living pathological picture and of studying the gross and minute pathology besides watching the after-care of the patient.

OPERATIVE CLINICS. Cases in the gynecological wards are operated before the Senior class by arrangement with the Department of Surgery. Students are assigned to cover all gynecological ward cases. They take histories, observe or assist at operations and follow the progress of patients until discharged.

UROLOGY

H. WILLARD STERRETT, D.O., M.Sc., F.A.C.O.S., Professor

FRANCIS L. ROSSELL, D.O., Demonstrator

REGINALD TEAGUE, D.O., Demonstrator

WILLIAM F. McDUGALL, B.S., D.O., Instructor

HARRY N. KERR, D.O., Fellow

The courses offered by this department are designed to cover the fundamentals of urology and diseases of the urogenital tract, including the venereal diseases except syphilis. Attendance

of fourth-year students in small sections upon a well-patronized urologic clinic affords exceptional opportunities for the study of the treatment of the various surgical and non-surgical affections of the genito-urinary system. Each senior student is required to engage in the actual diagnosis and treatment of cases.

Third Year

UROLOGY I (GENITO-URINARY DISEASES). Lectures, demonstrations and clinics. Prof. Sterrett. Once weekly for one year beginning the second semester of the Junior year. This course covers the necessary fundamental knowledge of genito-urinary diseases in preparation for the clinical work of the fourth year. Diagnosis, pre-operative and post-operative care of urologic cases are discussed 32 hours

Fourth Year

UROLOGY II (VENEREAL DISEASES). Lectures and demonstrations. Prof. Sterrett. Twice weekly for eight weeks during the second semester of the Senior year. A systematic didactic course in the etiology, bacteriology, pathology, diagnosis and treatment of the venereal diseases. Clinical demonstrations make the student familiar with the various methods of diagnosis and treatment 16 hours

UROLOGY III (SECTION INSTRUCTION). Dr. Sterrett and assistants' Clinical instruction in the dispensary and wards of the Hospital gives the student an opportunity to examine and treat the ordinary genito-urinary disease. The Senior class is divided into small sections for practical work and the students are detailed as assistants. They are taught urethral instrumentation, as well as the use of the cystoscope, technique of irrigation, administration of salvarsan and modern accepted antileptic treatments, X-ray diagnosis by retrograde catheterization as well as intravenous contrast media . . . 24 hours

OPHTHALMOLOGY AND OTOLARYNGOLOGY

J. ERNEST LEUZINGER, D.O., M.Sc., F.I.S.O., Professor and Head of the Department

ANTONIO ABEYTA, B.S., D.O., Clinical Professor of Ophthalmology and of Otolaryngology

PHYLLIS W. HOLDEN, D.O., Associate in Ophthalmology

JEAN L. SHEPERLA, D.O., Associate in Otolaryngology

H. MAHLON GEHMAN, D.O., Demonstrator of Bronchoscopy

THOMAS K. STANDRING, D.O., Assistant in Otolaryngology

GEORGE GUEST, D.O., Clinical Assistant in Otolaryngology

RAYMOND JUNI, D.O., Clinical Assistant in Bronchoscopy

MARVIN BLUMBERG, D.O., Fellow in Otolaryngology

The courses in ophthalmology and otolaryngology are given in the third and fourth years. Clinical lectures and demonstrations to sections of the class form an important part of the work. The instruction is designed to meet the needs of a well-trained general practitioner. The purely osteopathic considerations involving etiology, pathology, diagnosis and treatment of eye, ear, nose and throat diseases will be systematically discussed by the Professor and his associates.

The work in Bronchoscopy is designed to afford instruction to small groups of the Senior Class on those phases of peroral endoscopy that are considered of value to the general practitioner.

Third and Fourth Years

I. LARYNGOLOGY AND RHINOLOGY. Lectures and clinical demonstrations. Prof. Leuzinger and assistants. Two hours weekly during the second semester of the Junior year, presenting from a practical standpoint, by means of case charts, models, the important osteopathic and surgical aspects of diseases of the nose and throat. The student is instructed in the use of instruments for examining the nose and throat as well as special osteopathic methods of examination and treatment. Stress is laid upon the nose and throat conditions encountered in general practice rather than in technical conditions. An intimate knowledge of the normal anatomy and physiology of these tracts is required as a basis for control and rational treatment32 hours

II. OTOLOGY. Prof. Leuzinger and associates. Lectures, demonstrations and technical work covering in a practical manner the acute and chronic clinical affections of the ear. The various pathological conditions are described and demonstrated to the class by the use of models and anatomical specimens. Again, the subject is presented from the standpoint of the general practitioner, so that he may be qualified to handle intelligently the more common diseases and conditions requiring immediate attention. Particular regard is given to all forms of deafness. Results have been recorded in nearly all cases of catarrhal deafness under osteopathic methods. Operations are performed from time to time before the class to supplement the practical instruction32 hours

III. SECTION INSTRUCTION (OTOLARYNGOLOGY). Each student is assigned for two weeks' instruction in the College clinic dealing with the diagnosis, osteopathic and surgical treatment of suitable cases. The students are given opportunity to become accustomed to the use of ordinary instruments of ear, nose and throat examinations. Stress is laid upon the normal, so as to give students a fair standard upon which to base recognition of conditions of disease12 hours

OPHTHALMOLOGY I (LECTURE). Dr. Abeyta and associates. Lectures covering refraction and the osteopathic and surgical aspects of diseases of the eye and their relationship to general diseases. The anatomy and physiology of the eye are reviewed. Then the pathological changes encountered in se-

lected conditions are presented, with the consideration of types, causes, relation to general diseases, diagnosis and treatment. The subject includes the elementary principles involved in refraction and the indications for prescribing glasses. 32 hours

OPHTHALMOLOGY II (SECTION INSTRUCTION). The class is divided into small sections so that each student may personally be instructed in the methods of examining a patient and of making functional tests, such as the determining of central visual acuity, accommodation, indirect vision and visual fields, pupillary reactions and the status of the external ocular muscles. Instruction is given in the use of the ophthalmoscope and an opportunity is afforded for the study of the inflammatory diseases of the eye and their treatment. In refraction the student is given practical demonstrations of the methods employed in detecting and correcting refractive errors. . . . 12 hours

BRONCHOSCOPY I. Clinical lectures and demonstrations. The students have the opportunity to become acquainted with the principles underlying the subject and to observe at close hand the actual treatment on clinical subjects. The clinical instruction is supplemented by cadaveric demonstrations, films, models and special dissections. 8 hours

SECTION INSTRUCTION. Prof. Leuzinger. Practical demonstration of methods of diagnosis and treatment to small groups of the class, illustrated by manikin and cadaveric demonstrations, films and bedside instruction.

OBSTETRICS

H. WALTER EVANS, D.O., M.Sc., Professor

FRANCIS E. GRUBER, D.O., Associate Professor

HERMAN KOHN, D.O., Associate

JULIAN L. MINES, D.O., Clinical Assistant

LESTER EISENBERG, D.O., Fellow

During the third year the teaching of obstetrics is designed to prepare the student for the practical work of the fourth year. The aim of the department is to afford the student a firm foundation in obstetric principles. In the fourth year the work is largely clinical, embracing section instruction, out-patient deliveries, bedside training, conferences and laboratory studies. Material for instruction is furnished by the Prenatal Clinic in addition to a wealth of cases presented by the wards of the hospital. A well-organized out-patient service takes care of prenatal and home-care cases under supervision of the various instructors and resident physicians. A service from the Osteopathic Department has been established to insure complete instruction on complicated cases. An obstetrical heart-station is available at regularly scheduled hours.

Third Year

OBSTETRICS I. Lectures, demonstrations and clinical teaching. Prof.

Evans and assistants. Two hours a week throughout the Junior year. This course comprises a study of normal pregnancy, labor and the puerperium systematically covered during the first semester. A study of reproduction and the anatomy of the normal female pelvis introduces the subject. Models, diagrams, manikin work and individual practice supplement the instruction. During the second semester the work includes the discussion and demonstration of abnormal conditions of pregnancy, labor and puerperium, and obstetric surgery. The lectures and clinics cover in orderly manner the pathologic states, the management of abnormal cases and of puerperal complications.....64 hours

Fourth Year

OBSTETRICS II (CLINICAL). Lectures, demonstrations and clinics. Prof. Evans and assistants. Once weekly throughout the year. The work of the first semester comprises manikin drill in the mechanism and management of normal labor, the diagnosis of presentation, position, posture, etc. This is followed by the demonstrations of diagnostic methods and the mechanics of abnormal labor. The Professor performs the principal manual as well as instrumental operations upon the manikin. In the second semester opportunity is given to observe clinically a number of cases of normal and abnormal pregnancy and especially to see living pathological pictures and to study the gross and microscopic pathology. The clinics are also devoted to diagnostic and operative obstetrics. Under the direction of instructors from the clinical staff, the students prepare the histories, assist in physical examinations, study the gross and microscopical specimens; make provisional diagnosis; follow their cases to the operating room. They are instructed in the methods of prenatal care, and are made familiar with the routine care of the mother and baby 56 hours

OUT-PATIENT ASSIGNMENTS. Students are assigned to service for a determined period in the Out-Patient Department of the Hospital. Each student attends a number of cases in confinement and personally cares for cases in homes. The work is supervised by instructors who are on duty in the Hospital. The pathological cases in this service needing institutional treatment are brought to the Hospital, where the operations are exhibited to the fourth-year class. Thus students have the opportunity under supervision of an instructor from the teaching staff to deliver normal cases, assist at operations and to follow the routine care of the mother and baby.

GRADUATE COURSES. A limited number of graduate physicians will be placed for full-year courses, upon making suitable arrangements with the Dean.

RADIOLOGY

PAUL T. LLOYD, D.O., M.Sc., Professor

KENNETH L. WHEELER, D.O., M.Sc., Associate

FRED E. MOWRY, D.O., Instructor

JOHN H. PULKER, D.O., Fellow

The Department of Radiology offers instruction designed to acquaint the student with the physics of Roentgen rays and radium, with the application of x-rays and radium to the practice of osteopathy and with the interpretative knowledge of x-ray films as applied to the general practitioner. Roentgen anatomy and physiology are taught during the first and second years by arrangement with these departments.

Third and Fourth Years

RADIOLOGY I (LECTURES, DEMONSTRATIONS, RADIOLOGICAL INTERPRETATIONS AND FLUOROSCOPY). Prof. Lloyd and assistants. The didactic work is made to systematically cover (a) Roentgen ray physics, (b) current rectification, (c) X-ray tubes, (d) special apparatus, (e) fluoroscopes. The scope of Roentgen examination comprises (1) emergency examinations, (2) routine examinations, (3) special methods of study. Stress is laid upon the application of anatomic, physiologic and pathologic data as found on the Roentgen film and its relation to the clinical data of the individual case. 32 hours

RADIOLOGY II (THERAPY). Prof. Lloyd. Lectures and demonstrations on the herapeutic use of the Roentgen ray and radium. 16 hours

CONFERENCES. Groups of students in conference with the instructor in the X-ray department. Bi-weekly classes of one hour each. During hospital clerkship the student is to attend all intern conferences in radiology. At these bi-weekly meetings fluoroscopic examinations and film study will be carried on, to impress on the student's mind the usefulness of Roentgen ray examination and he is given opportunity to raise various questions concerning Roentgen any examination and Roentgen diagnosis.

NEUROLOGY AND PSYCHIATRY

J. FRANCIS SMITH, D.O., M.Sc., Professor and Head of the Department

MARION A. DICK, D.O., Clinical Professor of Neurology and Psychiatry

J. L. FULLER, D.O., Assistant Professor of Psychiatry

ELIZABETH KEITSCH, D.O., Instructor in Neurology

A series of lectures on psychobiology in the Freshman year lays a foundation for the clinical training to follow.

The course in neurology is begun in the Junior year with a review of the anatomy, histology and physiology of the nervous system. Diseases of the peripheral nervous system; organic

diseases of the spinal cord and brain, and functional nervous diseases are considered systematically. Varied clinical material is utilized to illustrate the various topics. The Senior year work includes psychiatry and mental hygiene. In addition to the clinical lectures small sections of the class receive instruction in the neurological clinic and at the bedside in the Hospital.

First Year

NEUROLOGY I. (PSYCHOBIOLOGY). Prof. Smith and visiting lecturers. Lectures and demonstrations one hour a week during the first semester. This course will acquaint the student with the functions of the personality. Basic principles and methods of psychobiology. 16 hours

Third Year

NEUROLOGY. II (LECTURES). Prof. Smith. Two hours weekly throughout the Junior year. A systematic course of instruction in the pathology, diagnosis and treatment of diseases of the brain, spinal cord and peripheral nervous system. Where possible the lectures are clinical and methods of examination are discussed and illustrated. The significance of symptoms and physical signs of neurology, including the pathological reflexes, is discussed. Special emphasis is placed upon the study of neurological manifestations from the osteopathic viewpoint and of that purely osteopathic treatment in contrast to that of other forms of therapy. 64 hours

Fourth Year

NEUROLOGY III (PSYCHIATRY). Lectures, recitations and clinical demonstrations. Prof. Smith. Systematic study of the fundamental principles of human behavior followed by consideration of the etiology, course and treatment of the important mental diseases and conditions, with exhibition of selected cases to illustrate the practical aspects of mental disorders. The aim is to familiarize the student with more common issues presented by those who suffer from mental disorders, and to stress the results obtained by osteopathic methods. Mental Hygiene is considered in the light of all recent advances on the subject. 32 hours

NEUROLOGY IV (PHYSICAL THERAPY). Dr. Dick. Lectures and demonstrations covering the subjects of hydrotherapy, mechanotherapy, electrotherapy, actinotherapy, etc. 36 hours

NEUROLOGY V (SECTION INSTRUCTION). The class is divided into sections and each student receives instruction in neurological examinations in the dispensary and wards of the Hospital. Histories, reported findings and provisional diagnoses are criticized and therapeutic indications are discussed; finally the progress of each case is checked up after a suitable period. 12 hours

PEDIATRICS

R. ELIZABETH TINLEY, D.O., M.Sc., Professor
 WILLIAM S. SPAETH, D.O., Assistant Professor
 BERYL ARBUCKLE, D.O., Associate
 MUNRO PURSE, D.O., Clinical Assistant
 BEATRICE KRATZ, D.O., Clinical Assistant
 MARY LULICK, D.O., Clinical Assistant
 DORIS JANE ISENBERG, D.O., Clinical Assistant
 HARRIET E. WEISGERBER, D.O., Clinical Assistant
 ELEANOR BOAL, D.O., Clinical Assistant
 C. WAYNE MCCLINTOCK, D.O., Fellow
 H. EDWARD DAVIS, D.O., Fellow

The required work in pediatrics consists of didactic lectures, clinics, section instruction and ward rounds. Small groups of students are assigned as clinical clerks to the Children's Clinic, where abundant clinical material is afforded the student. Cases are assigned and the histories, physical examinations, laboratory data and progress notes are checked up by the attending staff. Emphasis is laid on the relation of pediatrics to public health and community problems. Under direction of the Department of Practice, a special course in contagious diseases is given to sections of the Junior class at the Philadelphia Hospital for Contagious Diseases. Daily visits by small groups to the wards of the Osteopathic Hospital round out a balanced practical course of study in this important field.

Third Year

PEDIATRICS I. Lectures, demonstrations and clinics. Prof. Tinley, Drs. Spaeth and Arbuckle. One hour weekly throughout the Junior year. The didactic work first considers the normal child, development, physical examinations and infant feeding. Following a brief review of the anatomy, physiology and hygiene of childhood it is made to systematically include the general diagnosis, symptomatology and treatment of diseases peculiar to infancy and childhood, except the contagious diseases, which are taken under the department of osteopathy. Students are assigned in sections to the out-patient department where instruction is conducted with a view to developing an understanding of bedside approach and experience in dealing with the sick child and its diseases.
32 hours

PEDIATRICS II (DISPENSARY INSTRUCTION). Dr. Tinley and staff. The Junior class is divided into sections for attendance in the Dispensary. This course consists of four hours a week of practical clinical instruction for a period of eight weeks. Under the supervision of a physician in charge, cases are assigned for examination to students, who prepare a history, determine the diagnosis and suggest the proper treatment. The practical application of infant feeding is taught by using the out-patient material from the infant clinic as well as from the wards of the Hospital.32 hours

Fourth Year

PEDIATRICS III (CLINICAL). Dr. Tinley. One lecture or demonstration a week during the first semester. This course is clinical and is a continuation of the work given in Pediatrics I. The ward and out-patient department furnish ample material for the presentation of a variety of cases illustrating diseases peculiar to early life. 16 hours

HOSPITAL INSTRUCTION. Instruction is given to small sections in the wards of the Osteopathic Hospital. The teaching takes the form of clinics conferences on patients whom the students have examined. They have the opportunity of seeing the osteopathic treatment of diseases of children by the attending staff, and of following the progress of the cases.

CLINICAL OSTEOPATHY

., Professor
 RALPH P. BAKER, D.O., Clinical Professor
 WILBUR P. LUTZ, D.O., Clinical Professor
 THEODORE W. STEIGLER, D.O., Clinical Professor
 HARRY C. HESSDORFER, D.O., Assistant Professor
 ROBERT C. MCDANIEL, D.O., Demonstrator
 JOSEPH L. HAYES, D.O., Demonstrator
 JOHN J. MCHENRY, D.O., Demonstrator
 JOSEPH L. ROOT, III, D.O., Demonstrator
 B. T. BAILEY FLACK, D.O., Demonstrator
 RALPH M. ZECCA, D.O., Clinical Assistant
 ALBERT E. A. STYLES, D.O., Fellow

Students begin their course in clinical osteopathy in the first year with lecture clinics by members of the Clinic Staff. This is followed by instruction in first aid and emergencies encountered in every-day general practice. In the second year the principles and methods of physical diagnosis are considered which lay a foundation for the practical work to follow. Students are assigned in groups to the dispensary for observation and instruction in applied physical diagnosis. The general dispensary is utilized for teaching in the third year. History taking, physical diagnosis, clinical pathology, osteopathic management and care are taught and practiced in the out-patient department and in the clinical laboratory. The student becomes familiar with the commoner acute and chronic disease processes. The work is done in groups of four to six students under an instructor. In the fourth year clinical clerkships are served in the Osteopathic Hospital of Philadelphia and in the special medical and surgical divisions of the dispensary. Special instructors are available during certain hours to give necessary assistance and advice. Instruction is also given by means of lectures, recitations, amphitheatre clinics, clinico-pathological conferences, collateral reading and assignments to students who are required to prepare papers upon individual cases or subjects to be presented to the class and discussed in clinical conferences.

First Year

CLINICAL OSTEOPATHY I (LECTURE CLINICS). Staff. Once weekly

during the first semester. An introductory course to the practice of osteopathy in which is demonstrated the clinical importance of the subjects being studied—especially anatomy, physiology, physics and biology. The heads of both the clinical and science departments discuss the conditions demonstrated16 hours

CLINICAL OSTEOPATHY II (EMERGENCIES). Dr. Root. One hour a week the second half of the year. The students are taught the means employed in giving intelligent first aid to the injured and in every-day medical and surgical emergencies.16 hours

Second Year

CLINICAL OSTEOPATHY III (HISTORY TAKING). Dr. Merryman. One hour weekly, second semester. This course is designed to acquaint the students with the essentials of history taking and the principles of physical diagnosis as applied to actual clinical patients. Periodically during the semester, patients from the Dispensary and Hospital wards are brought before the class for analysis. The course is so arranged that symptomatology of different areas of the body due to varying degrees and types of disease is exemplified by cases or case records exhibited to the students. Essentially this course furnishes a practical introduction to the service of the students in the Dispensary during the last two hours of the curriculum.16 hours

CLINICAL OSTEOPATHY IV (PHYSICAL DIAGNOSIS). Dr. Lutz and associates. Three hours weekly during the first semester. Lectures and demonstrations designed to have the student acquire an intimate knowledge of normal signs, thus preparing him for the abundant abnormal conditions encountered in his clinical and bedside work to follow. The class is divided into small sections so that students may receive personal attention.48 hours

Third and Fourth Years

CLINICAL OSTEOPATHY V (SYMPTOMATOLOGY). Lectures and demonstrations. Dr. Stiegler. One hour weekly throughout the year. A systematic course comprising detailed consideration of symptoms and their interpretation and application in the practice of osteopathy.16 hours

CLINICAL OSTEOPATHY VI (AMPHITHEATRE CLINICS). Presentations Clinics are held twice each week. They are given separately to third and fourth year students to conform to their respective stages of development. The purpose of the clinical lectures is the correlation of the various studies pursued by the student leading to proper diagnosis and treatment. Patients from the dispensary and wards of the Hospital are presented to the class and discussed

by the directors of the clinic. Emphasis is placed upon careful history taking and accuracy of physical and laboratory examinations. Cases are selected for illustration to cover systematically the more common and important conditions encountered in general practice and in the medical specialties.96 hours

CLINICAL OSTEOPATHY VII (GENERAL CLINICAL CLERKING SERVICE). Each student serves one full year in clinical practice in the general dispensary. Sections of third-year students are assigned to take histories, are drilled in the technique of eliciting physical signs, make osteopathic examinations, do necessary laboratory work, attempt diagnosis, and suggest treatment. All of their work is done under supervision by members of the teaching force. The backbone of the student's training as a clinical clerk is believed to be his own experience with patients as amplified by reading and by contact with members of the hospital and teaching staff. Formal conferences are held daily in which the clerks present cases for criticism and discussion. The vast amount of clinical material available makes it possible to present all of the varying grades of the different acute and chronic diseases by personal contact with same
192 hours

CLINICAL OSTEOPATHY VIII (SPECIAL CLINICS). During the fourth year sections of the class are assigned in rotation to the dispensary for instruction in the special clinics under supervision by members of the teaching force. The various systems of the body are studied with an ordered approach and all special fields are included as, dermatology, gastro-intestinal diseases; diseases of the circulatory system, diseases of the lungs, syphilis, arthritis, endocrine conditions, hematology, allergy, etc. Effort is made to demonstrate diagnostic technic and special therapeutic measures. The students have the opportunity of coming into intimate contact with the routine work of the special departments.

CLINICAL OSTEOPATHY IX (ELECTROCARDIOGRAPHY). Dr. Root. Lectures and demonstrations during the second semester of the Senior year covering the fundamentals in the use and interpretation of electrocardiographic procedures.8 hours

HOSPITAL INSTRUCTION. All fourth year students serve as clerks (sub-internes) in the Osteopathic Hospital of Philadelphia. The class is divided into four groups, each of which devotes one quarter (thirteen weeks) of the year to hospital practice, and they form an integral part of the organization. Emphasis is placed on the firm grounding of students in the fundamentals of osteopathic medicine. During the year 1939 a total of 3731 patients accounting for 26,384 patient days were registered in the Hospital for study, observa-

tion and treatment by students of the College assigned as sub-interns (externs) to individual cases. Endeavor is made to bring to attention the more important problems of internal medicine. The students are assigned to cases and carry out treatment of the patients under the supervision of the Medical Director and the Attending Staff. Students are referred to the files, current issues of journals and to reference works as additional sources of information. Ward walks and conferences are held weekly in which special attention is given to the interpretation of symptoms, physical signs and laboratory findings. Students are required to present selected cases and their work is instructively criticized and fully discussed by teachers and students.

ELECTIVES. During the fourth year students will be given the opportunity, insofar as possible, to elect clinical courses of their special interest. A variety of courses is available to the students who merit this consideration. Students should remember, however, that a special interest in no wise takes the place of required special assignments. Every encouragement will be given within the limits of the time at the disposal of the individual student.

MILITARY MEDICINE

Dr. (Capt.) J. Francis Smith and Associates. The course in military medicine, originated and inaugurated in 1939, has been augmented and enlarged in scope. It is aimed to give the graduate student a basic conception of military medicine in its phases of active service, including field surgery, first aid, war wounds, military sanitation, and mass hygiene. Instruction in the personal hygiene of the soldier is given, dealing with dress, equipment, marching, water, food, bathing, etc. Treatment of poisoning from the various war gases is taught. Visiting lecturers and army officers discuss and outline military law and discipline. A certain amount of the time is allotted to military tactics and drill. The duties and relationship of a commissioned officer and an enlisted man are emphasized.

ECONOMICS

PROFESSIONAL PROBLEMS. Kenneth A. Shaver, B.S., LL.B. This course is designed to acquaint the professional student with the business and legal problems with which he will come into contact during his practice. Consideration is given to the many phases of this subject; the necessity for and methods of keeping accurate business records; Federal, State and local laws affecting the doctor; malpractice, what it is and how it can be avoided; the personal liability of the osteopathic physician through his agents and partners; the importance of life, fire and liability insurance to the professional practitioner; the place of negotiable instruments in the business world with a discussion of notes, checks and money and the doctor in court.

SUMMARY OF DEPARTMENTS

	DIDACTIC	LAB.	TOTAL HOURS
ANATOMY			
Anatomy I (Descriptive)	176	32	208
Anatomy II (Histology and Embryology)	80	160	240
Anatomy III (Topographical and Visceral)	80	...	80
Anatomy IV (Neuro-Anatomy)	48	...	48
Anatomy V (Dissection) . . . . .	...	224	224
Anatomy VI (Applied)	32	...	32
Anatomy VII (Review)	24	...	24
	440	416	856
PHYSIOLOGY AND PHARMACOLOGY			
Physiology I (Principle)	32	32	64
Physiology II (General)	48	96	144
Physiology III (Special)	48	64	112
Physiology IV (Pharmacology)	48	32	80
Physiology V (Applied)	72	...	72
	248	224	472
CHEMISTRY			
Chemistry I (Biochemistry)	64	192	256
Chemistry II (Toxicology)	16	16	32
Chemistry III (Jurisprudence)	16	...	16
Chemistry IV (Medico-Legal Problems)	8	...	8
Chemistry V (Review)	24	...	24
	128	208	336
PATHOLOGY			
Pathology I (Parasitology)	32	...	32
Pathology II (General)	48	64	112
Pathology III (Clinical)	32	96	128
Pathology IV (Special)	48	64	112
Pathology V (Special)	32	...	32
Pathology VI (Conference)	8	...	8
Pathology VII (Review)	24	...	24
	224	224	448
BACTERIOLOGY AND PREVENTIVE MEDICINE			
Bacteriology I (Microbiology)	32	96	128
Bacteriology II (Immunology and Serology)	16	64	80
Bacteriology III (Preventive Medicine)	48	16	64
Bacteriology IV (Review)	24	...	24
	120	176	296

	DIDACTIC	LAB.	TOTAL HOURS
OSTEOPATHIC PRINCIPLES AND RESEARCH			
Principles I (History)	16	...	16
Principles II (Fundamentals)	16	...	16
Principles III (Advanced)	64	...	64
Principles IV (Applied)	32	...	32
Research .....	...	...	...
	128	...	128
OSTEOPATHIC THERAPEUTICS			
Therapeutics I (Fundamentals)	16	...	16
Therapeutics II (Muscular Normalization)	16	...	16
Therapeutics III (Special Mechanics) .....	...	16	16
Therapeutics IV (Spine and Sacro-Iliacs)	64	...	64
Therapeutics V (Section Instruction) .....	...	32	32
Therapeutics VI (Extremities)	32	...	32
Therapeutics VII (Bedside) .....	...	16	16
Therapeutics VIII (Advanced) .....	...	16	16
Therapeutics IX (Comparative)	32	...	32
Therapeutics (Anaesthesia Reduction) .....	...	...	...
Hospital Instruction .....	...	...	...
Research .....	...	...	...
	160	80	240
PRACTICE OF OSTEOPATHY			
Practice I (Infectious Diseases)	32	6*	38
Practice II (Circulatory System)	64	...	64
Practice III (Metabolic Diseases)	16	...	16
Practice IV (Bones, Joints, Muscles, etc.)	16	...	16
Practice V (Gastroenterology)	32	...	32
Practice VI (Respiratory Diseases)	48	...	48
Practice VII (Kidney)	16	...	16
Practice VIII (Blood Diseases)	16	...	16
Practice IX (Endocrinology)	24	...	24
Practice X (Dermatology and Syphilology)	48	...	48
Practice XI (Tuberculosis)	16	...	16
Practice XII (Differential Diagnosis)	48	...	48
Practice XIII (Art of Practice)	16	...	16
	392	6	398

*Municipal Hospital for Contagious Diseases.

	DIDACTIC	CLINICAL	TOTAL HOURS
SURGERY			
Surgery I (Minor).....	32	16	48
Surgery II (General).....	64	32	96
Surgery III (Anaesthesiology).....	16	...	16
Surgery IV (Special).....	64	64	128
Surgery V (Orthopedic).....	16	16	32
Surgery VI (Proctology).....	16	12	28
Surgery VII (Section Instruction).....	...	24	24
Cadaveric Surgery.....	...	...	...
Clerkship.....	...	...	...
Surgical Pathology (Section Instruction).....	...	...	...
	208	164	372
GYNECOLOGY			
Gynecology I (Lectures).....	32	...	32
Gynecology II (Clinical).....	16	16	32
Section Instruction.....	...	24	24
Ward Walks.....	...	...	...
	48	40	88
UROLOGY			
Urology I (Lectures).....	32	...	32
Urology II (Venereology).....	16	...	16
Urology III (Section Instruction).....	...	24	24
	48	24	72
OTOLARYNGOLOGY AND OPHTHAL- MOLOGY			
Otolaryngology I (Laryngology).....	32	...	32
Otolaryngology II (Otology).....	32	...	32
Otolaryngology III (Section Instruction).....	...	12	12
Ophthalmology I (Lectures).....	32	...	32
Ophthalmology II (Section Instruction).....	...	12	12
Bronchoscopy I (Lectures).....	...	8	8
Hospital Instruction.....	...	...	...
	96	32	128
OBSTETRICS			
Obstetrics I (Lectures).....	64	...	64
Obstetrics II (Clinical).....	16	16	32
Section Instruction.....	...	24	24
Out-Patient Assignments.....	...	...	...
Hospital Instruction.....	...	...	...
	80	40	120
RADIOLOGY			
Radiology I (Diagnostic).....	32	...	32
Radiology II (Therapeutics).....	16	...	16
	48	...	48
NEUROLOGY AND PSYCHIATRY			
Neurology I (Psychobiology).....	16	...	16
Neurology II (Diagnostic).....	64	...	64
Neurology III (Psychiatry).....	32	...	32
Neurology IV (Physical Therapy).....	24	12	36
Neurology V (Section Instruction).....	...	12	12
Hospital Instruction.....	...	...	...
	136	24	160
PEDIATRICS			
Pediatrics I (Lectures).....	32	...	32
Pediatrics II (Dispensary).....	...	32	32
Pediatrics III (Clinical).....	...	16	16
Hospital Instruction.....	...	...	...
	32	48	80

	DIDACTIC	CLINICAL	TOTAL HOURS
CLINICAL OSTEOPATHY			
Clinical Osteopathy I (Lecture Clinics).....	16	...	16
Clinical Osteopathy II (Emergencies).....	...	16	16
Clinical Osteopathy III (History-Taking).....	16	...	16
Clinical Osteopathy IV (Physical Diagnosis).....	32	16	48
Clinical Osteopathy V (Symptomatology).....	32	...	32
Clinical Osteopathy VI (Amphitheatre Clinics)...	...	96	96
Clinical Osteopathy VII (General Clerking Service).....	...	192	192
Clinical Osteopathy VIII (Special Clinics).....	...	96	96
Clinical Osteopathy IX (Electro-cardiography) ..	8	...	8
Hospital Instruction.....	...	...*	...
Electives.....	...	...	...
	104	416	520

*13 Weeks' assignment as a sub-intern in the Hospital.

FIRST YEAR—FIRST SEMESTER

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	Anatomy	Anatomy	Anatomy	Anatomy	Anatomy	Anatomy
9-10	Embryology	Biophysics	Histology	Biophysics	Histology	Embryology
10-11	Chemistry	Embryology Laboratory Section A	Histology Laboratory Section B	Chemistry	Histology Laboratory Section A	Physics Laboratory Section A
11-12	Laboratory	Physics Laboratory Section B	Anatomy Laboratory Section A	Laboratory	Anatomy Laboratory Section B	Embryology Laboratory Section B
1-2	Chemistry	Chemistry	Histology Laboratory Section A	Chemistry	Histology Laboratory Section B	
2-3	History of Osteopathy	Laboratory		Psychobi- ology		
3-4	Clinical Osteopathy	Parasitology		Parasitology		

FIRST YEAR—SECOND SEMESTER

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	Anatomy	Anatomy	Anatomy	Anatomy	Anatomy	Physiology Laboratory Section A
9-10	Bacteriology	Physiology	Histology	Physiology	Bacteriology	Bacteriology Laboratory Section B
10-11	Chemistry	Physiology Laboratory Section A	Histology Laboratory Section B	Chemistry	Histology Laboratory Section A	Chemistry
11-12	Laboratory	Bacteriology Laboratory Section B	Physiology Laboratory Section A	Laboratory	Physiology Laboratory Section B	Laboratory
1-2	Clinical Osteopathy	Chemistry	Physiology	Chemistry	Bacteriology Laboratory Section A	
2-3	Principles	Bacteriology Laboratory Section A	Bacteriology Laboratory Section B	Bacteriology Laboratory Section A	Histology Laboratory Section B	
3-4	Toxicology	Physiology Laboratory Section B	Histology Laboratory Section A	Physiology Laboratory Section B	Toxicology	

SECOND YEAR—FIRST SEMESTER

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	Pathology	Physiology	Pathology	D I S S E C T I O N	Physiology	Physiology
9-10	Neuro- Anatomy	D I S S E C T I O N	Principles		Neuro- Anatomy	Neuro- Anatomy
10-11	Pathology Laboratory Section B	P H Y S I O L O G Y	Bacteriology Laboratory Section B		Pathology	Pathology Laboratory Section B
11-12	Physiology Laboratory Section A		Physiology Laboratory Section A		Bacteriology	Bacteriology Laboratory Section A
1-2	Topographic Anatomy	Clinical Pathology	Topographic Anatomy	Clinical Pathology	Principles	
2-3	Bacteriology	Pathology Laboratory Section A	Technique	Pathology Laboratory Section A	Bacteriology Laboratory Section B	
3-4	Laboratory Section A	Physiology Laboratory Section B		Physiology Laboratory Section B		

SECOND YEAR—SECOND SEMESTER

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	Pathology	Technique Sections	Minor Surgery	D I S S E C T I O N	Minor Surgery	Pharma- cology
9-10	Visceral Anatomy	D I S S E C T I O N	Principles		Pathology	Pathology
10-11	Pathology Laboratory Section A	P H Y S I O L O G Y	Pharma- cology		Pharma- cology	Pathology Laboratory Section B
11-12	Pharma- cology Laboratory Section B		History Taking		Visceral Anatomy	Pharma- cology Laboratory Section A
1-2	Technique	Physical Diagnosis	Visceral Anatomy	Physical Diagnosis	Principles	
2-3	Clinical Pathology (Dispensary)	Pathology Laboratory Section B	Clinical Pathology (Dispensary)	Pathology Laboratory Section A	Clinical Pathology (Dispensary)	
3-4		Minor Surgery Physical Diagnosis Section A		Minor Surgery Physical Diagnosis Section B		

THIRD YEAR—FIRST SEMESTER

HOOR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	Technique	Acute Infections	Bedside Technique	Technique Sections	Technique	Preventive Medicine
9-10	Preventive Medicine	Foot Technique	Acute Infections	Gynecology	Preventive Medicine	Obstetrics
10-11	Applied Anatomy	Obstetrics	Neurology	Special Pathology	Neurology	Applied Anatomy
11-12	Symptomatology	Surgery	Metabolic Diseases	Pediatrics	Surgery	Bones and Joints
1-2	Applied Principles	Cardio-Vascular Diseases	Clinic	Cardio-Vascular Diseases	Clinic	Preventive Medicine (Trips)
2-3	C L I N I C	C L I N I C	C L I N I C	C L I N I C	C L I N I C	
3-4						

THIRD YEAR—SECOND SEMESTER

HOOR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	Technique	Obstetrics	Special Pathology	Technique Sections	Technique	Surgery
9-10	Gastro-enterology	Laryngology	Gastro-enterology	Laryngology	Radiology	Clinic
10-11	Technique (Extremities)	Urology	Neurology	Gynecology	Neurology	Anaesthesiology
11-12	Symptomatology	Surgery	Radiology	Pediatrics	Surgery	Obstetrics
1-2	Applied Principles	Cardio-Vascular	Clinic	Cardio-Vascular	Clinic	
2-3	C L I N I C	C L I N I C	C L I N I C	C L I N I C	C L I N I C	
3-4						

FOURTH YEAR—FIRST SEMESTER

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	Physical Therapy	Technique Sections	Dermatology	Proctology	Blood Diseases	Surgery
9-10	Surgery	Otology	Surgery	Otology	Orthopedic Surgery	Clinic
10-11	Jurisprudence	Obstetrics	Psychiatry	Gynecology	Psychiatry	Practice (Kidney Dis.)
11-12	Radiology	Urology	Therapeutics	Pediatrics	Dermatology	

1-2	Endocrinology	Respiratory Diseases	Clinic	Respiratory Diseases	Clinic	
2-3	C L I N I C	C L I N I C	C L I N I C	C L I N I C	C L I N I C	
3-4						

FOURTH YEAR—SECOND SEMESTER

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	Ophthalmology	Bronchoscopy	Syphilology	Chemico-Physiology	Chemico-Physiology	Surgery
9-10	Surgery	Pathology Conferences	Surgery	Gynecology	Orthopedic Surgery	Clinic
10-11	Endocrinology	Obstetrics	Physical Therapy	Medico-Legal Problems	Ophthalmology	
11-12	Chemotherapy	Venereology	Therapeutics	Electro-cardiography	Syphilology	

1-2	Differential Diagnosis	Respiratory Diseases	Differential Diagnosis	Tuberculosis	Differential Diagnosis	
2-3	Clinical	Clinical	Clinical	Clinical	Clinical	
3-4	Sections	Sections	Sections	Sections	Sections	
4-5		Military Medicine	Art of Practice	Military Medicine		

TEXTBOOKS

The following list comprises the textbooks required by the various departments of the College. These books may be purchased in the College bookroom, which is run for the convenience of students. The proceeds from the sale of books are applied to the library fund and are used for the purchase of books of reference for the use of the faculty and students. Books of reference as well as other texts for collateral reading may be obtained in the College Library.

ANATOMY

TEXTBOOKS—*Gross*, Gray (Lewis); *Dissection*, Cunningham; *Histology*, Bailey; *Embryology*, Bailey and Miller; *Neuro-Anatomy*, Larsell; *Applied*, Pottenger; REFERENCE BOOKS—*Gross*, Cunningham, Morris, Piersol; *Dissection*, Heisler; *Histology*, Piersol and Maximow; *Embryology*, Jordan and Kindred, McMurrich; *Neuro-Anatomy*, Globus, Tilney and Riley, Morris; *Applied*, Halladay, Page, David; *Surface and Radiological Anatomy*, Appleton, Hamilton and Teperoff.

CHEMISTRY

TEXTBOOKS—*Physiological*, Erb; *Chemical Tests*, Erb; *Toxicology*, Erb; ("Poisoning the Public"), Trumper. REFERENCE BOOKS—*Physiological*, Morse, Matthews, Bodansky; *Chemical Tests*, Richter, Lucas; *Toxicology*, Peterson and Haines, Brundage, Underhill.

GASTROENTEROLOGY AND PROCTOLOGY

TEXTBOOKS—Kantor, Blanchard. REFERENCE BOOKS—Bassler, McConnell and Teale, Cohnheim, Lyons, Austin, Blanchard.

GENITO-URINARY DISEASES AND DERMATOLOGY

TEXTBOOKS—*Genito-Urinary Diseases*, Herman; *Dermatology*, Sutton and Sutton. REFERENCE BOOKS—*Genito-Urinary Diseases*, Keyes, Cabot, Young, Baketel; *Dermatology*, Stelwagon, Hartzel, Ormsby.

NEUROLOGY AND PSYCHIATRY

TEXTBOOKS—*Neurology*, Wechsler; *Psychiatry*, Henry; *Neuroses*, Wechsler. REFERENCE BOOKS—*Neurology*, Starr, Crushman, Jelliffe and White; *Psychiatry*, Church and Peterson, Bowers.

OBSTETRICS AND GYNECOLOGY

TEXTBOOKS—*Obstetrics*, Curtis, De Lee, Williams; *Gynecology*, Shumann, Crossen. REFERENCE BOOKS—*Obstetrics*, Hirst, Shears; *Gynecology*, Graves, Kelley, Anspach, Miller.

OPHTHALMOLOGY AND OTOLARYNGOLOGY

TEXTBOOKS—*Laryngology and Rhinology*, Morrison; *Otology*, Palen and Clay; *Ophthalmology*, May. REFERENCE BOOKS—*Laryngology and Rhinology*, Ballenger, Clay, Thomson, Phillips; *Otology*, Perkins, Bacon; *Ophthalmology*, Parsons, Fuchs, De Schweinitz.

OSTEOPATHY AND CLINICAL OSTEOPATHY

TEXTBOOKS—*History*, Booth; *Physical Diagnosis*, Norris and Landis and Lowenberg; *Diagnosis*, French; *Clinical Laboratory Methods*, Todd and Sanford, Gradwohl or Krackie; *Practice*, Cecil, Meakin; *Jurisprudence*, Scheffel. REFERENCE BOOKS—*History*, Page, Garrison; *Applied Physics*, Hoadley, Carhart; *Physical Diagnosis*, Rose, Cabot, Pratt and Bushnell; *Diagnosis*, Greene, Anders and Boston, Cabot; *Clinical Laboratory Methods*, Webster, Martinet, Faught, Kolmer and Boerner, Still, Stevens, Osler, McConnell and Teale; *Jurisprudence*, Peterson and Haines, Brothers, Sanford, Stewart, Reese.

PATHOLOGY

TEXTBOOKS—*Pathology, General*, Boyd, Karsner, Smith and Gault, MacCallum, Bell; *Special*, Boyd, Karsner, Smith and Gault, MacCallum, Bell, Kaurmann; *Surgical*, Boyd, McFarland; *Oncological*, Ewing, Cutler and Buschke; *Gynecological and Obstetrical*, Douglass and Faulkner; *Clinical*, Gradwohl, Todd and Sanford, Bray, Kracke, Kolmer and Borne. Osgood; *Hematology*, Kracke, Osgood; *Parasitology*, Craig and Faust, Chandler, deRivas,

PEDIATRICS

TEXTBOOKS—Holt and McIntosh, Griffith and Mitchell. REFERENCE BOOKS—Kerley, Drew, Abt.

PHYSIOLOGY

TEXTBOOKS—Best and Taylor. REFERENCE BOOKS—Brubaker, Hewlett, Haliburton, Howell.

SURGERY

TEXTBOOKS—*Minor*, Christopher; *General*, Da Costa; *Orthopedic*, Bradford; *Anaesthesiology*, Flagg; *Röntgenology*, Rhinehart (Lloyd). REFERENCE BOOKS—*Minor*, Eliason, Foote and Livingston, Williams; *General*, Keen, Binnie, Babcock; *Orthopedic*, Whitman, James and Lovett; *Anaesthesiology*, Dunn; *Röntgenology*, Knox, U. S. Army Manual, Holmes and Ruegles.

THERAPEUTICS

TEXTBOOKS—*Principles of Osteopathy*, Long (Notes); *Mechanics*, Ashmore; *Technique*, Downing; *Dietetics*, Barborka; *Therapeutics*, Sollman; *Physiotherapy*, Granger. REFERENCE BOOKS—*Principles of Osteopathy*, Hulett, Tasker, Downing, Burns; *Mechanics*, Halladay; *Technique*, Tasker, Ashmore; *Dietetics*, Friedenwald and Ruhrah, Sansum, Thompson, Gauss; *Therapeutics*, Stevens, Potter, Hare, McConnell; *Physiotherapy*, Sampson, Kellogg, Massey.

GRADUATES OF THE PHILADELPHIA COLLEGE OF OSTEOPATHY

JUNE 3, 1939

At a public Commencement, held at Town Hall, on the third of June, 1939, the Degree of Doctor of Osteopathy was conferred on the following men and women by the President, Mr. Charles Q. MacDonough. The principal address was given by Rex Beach, Novelist, on "Osteopathic Advances!"

- | | | | |
|--|---------------------|---|-------------------|
| Arble, Robert | Carrolltown, Pa. | Hickman, Jacob | Kittanning, Pa. |
| 1 yr., University of Pittsburgh | | B.S., Franklin and Marshall College | |
| B.S., St. Francis College | | Hopkins, Stephen | Sodus, N. Y. |
| Barrows, Mervyn | Carbondale, Pa. | 1 yr., Philadelphia Pre-Osteopathic School | |
| Bernhard, Alfred | Richmond, Va. | Jaxheimer, William | Woodhaven, N. Y. |
| 2 yrs., University of Richmond | | 2 yrs., Wagner Memorial Lutheran College | |
| Blumberg, Marvin | Philadelphia, Pa. | Jealous, Sargent | Thomaston, Me. |
| 1 yr., Philadelphia Pre-Osteopathic School | | 1 yr., University of Vermont | |
| Breetwor, Harry | Los Angeles, Calif. | 1 yr., Bowdoin College | |
| 2 yrs., Los Angeles College of Osteopathic Physicians and Surgeons | | Jones, Nelson | Paoli, Pa. |
| Brown, Lawrence | Troy, Pa. | 2 yrs., Swarthmore College | |
| 1 yr., Philadelphia Pre-Osteopathic School | | B.S., Guilford College | |
| Bryan, Ray | New Kensington, Pa. | Kerr, Harry | Philadelphia, Pa. |
| B.S., Grove City College | | 1 yr., Philadelphia Pre-Osteopathic School | |
| Butler, Irving | Worcester, Mass. | Koch, Elsy | Philadelphia, Pa. |
| 1 yr., University of Massachusetts | | 1 yr., Philadelphia College of Pharmacy and Science | |
| Button, Boyd | Georgetown, Del. | Kramer, Carolyn | Philadelphia, Pa. |
| 1 yr., Philadelphia Pre-Osteopathic School | | 1 yr., Philadelphia Pre-Osteopathic School | |
| Chaitin, Raymond | Brooklyn, N. Y. | Lentz, Richard | Upper Darby, Pa. |
| 2 yrs., Long Island University | | 1 yr., Philadelphia Pre-Osteopathic School | |
| Clark, Orlo, Jr. | White Plains, N. Y. | Lichtenwalner, Charles, Jr. | Lansdale, Pa. |
| 1 yr., Philadelphia Pre-Osteopathic School | | 3 yrs., Muhlenberg College | |
| Davis, William, Jr. | Scranton, Pa. | Marsh, Carl | Worcester, Mass. |
| 1 yr., Philadelphia Pre-Osteopathic School | | 2 yrs., Clark University | |
| Delia, Marconi | Vandergrift, Pa. | Martin, John | Marietta, Pa. |
| 1 yr., Allegheny College | | 1 yr., Elizabethtown College | |
| 4 yrs., Temple University | | McCauley, Milton | Dayton, Ohio |
| Ditmore, Brant | Albany, N. Y. | 1 yr., University of Dayton | |
| 3 yrs., Union College | | McClintock, Clifford | Philadelphia, Pa. |
| Drew, John | Philadelphia, Pa. | 1 yr., Philadelphia Pre-Osteopathic School | |
| B.S., University of Florida | | McDaniel, Stevens, Jr. | Wakefield, Mass. |
| Essayian, George S. | Philadelphia, Pa. | 1 yr., Philadelphia Pre-Osteopathic School | |
| 3 yrs., Villanova College | | Mitnick, Nathan | Philadelphia, Pa. |
| 2 yrs., Hahnemann Medical College | | 1 yr., Drexel Institute | |
| Fairlie, Joseph W. | Asbury Park, N. J. | 2 yrs., Villanova College | |
| 2 yrs., University of Pennsylvania | | 1 yr., University of Pennsylvania | |
| B.A., Washington and Lee University | | Moore, George | E. Lynn, Mass. |
| Feldman, Sol. | Brooklyn, N. Y. | 1 yr., Philadelphia Pre-Osteopathic School | |
| B.S., New York University | | Moore, Jonathan | Bridgeton, N. J. |
| M.S., New York University | | 1 yr., Philadelphia Pre-Osteopathic School | |
| Franz, Ruth | Pittsburgh, Pa. | Noar, Gertrude | Pittsburgh, Pa. |
| 1 yr., Northwestern University Medical School | | 1 yr., Woman's Medical College, Philadelphia | |
| Gedney, Fred | Syracuse, N. Y. | Northup, George | Morristown, N. J. |
| 3 yrs., Syracuse University | | 2 yrs., Drew University | |
| Geller, Bernard | Wyncote, Pa. | Oshever, Frieda | Brooklyn, N. Y. |
| 3 yrs., Ursinus College | | 2 yrs., Brooklyn College | |
| Gerber, Rudolph | Brooklyn, N. Y. | 4 yrs., College of the City of New York | |
| 2 yrs., Brooklyn College | | 2 yrs., New York Homeopathic Medical College | |
| Gerhart, Paul | Emaus, Pa. | Pencek, Ronald | Scranton, Pa. |
| 1 yr., Muhlenberg College | | 1 yr., Lehigh University | |
| Green, John B. | Pittsburgh, Pa. | 1 yr., Philadelphia Pre-Osteopathic School | |
| 3 yrs., University of Pittsburgh | | Raeuchle, Randal | Harrisburg, Pa. |
| 2 yrs., Hahnemann Medical College | | 1 yr., Pennsylvania State College | |
| Harkins, Daniel, Jr. | Elizabeth, N. J. | | |
| 2 yrs., Villanova College | | | |

- Richman, William Philadelphia, Pa.
B.S., Villanova College
- Riddell, Theresa Williamsport, Pa.
4 yrs., Temple University
- Ruberg, Raymond Philadelphia, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Sabino, Florence Woodside, L. I., N. Y.
A.B., Hunter College
2 yrs., New York Homeopathic Medical College
- Schneider, Lewis Philadelphia, Pa.
1 yr., Wharton School
- Shields, Martha Harrisburg, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Smith, Robert Oradell, N. J.
2 yrs., St. John's College
- Smith, Kenneth Jenkintown, Pa.
1 yr., St. Joseph's College
- Smithson, Walter Upper Darby, Pa.
1 yr., Temple University
- Snider, Allan Fort William, Ont., Canada
1 yr., Collegiate Institute
1 yr., Queen's University
- Sorenson, Niels Philadelphia, Pa.
2 yrs., University of Colorado
- Starkey, Luelle Glenolden, Pa.
A.B., College of the Academy of the New Church
- Tavener, Warren E. Orange, N. J.
1 yr., Philadelphia Pre-Osteopathic School
- Tomei, Ralph Stroudsburg, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Tompkins, Bruce Norwalk, Conn.
B.A., Ohio Wesleyan University
- Tucker, Harry Philadelphia, Pa.
Ph.G., Temple University
- Ulrich, Donald Kent, Ohio
1 yr., Wooster College
B.S., Kent State University
- Weisgerber, Harriet Penfield, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Weitberg, Sidney Philadelphia, Pa.
A.B., University of Pennsylvania
- Wells, Roger Bay Shore, N. Y.
1 yr., St. Lawrence University
- Wever, Robert Sparta, N. J.
1 yr., Philadelphia Pre-Osteopathic School
- Winokur, Myer Philadelphia, Pa.
1 yr., Temple University
B.A., University of Pennsylvania

DEGREES IN COURSE

Master of Osteopathic Science

EDWIN H. CRESSMAN
LEO C. WAGNER
KENNETH L. WHEELER

HONORARY DEGREE

Doctor of Letters—D.Litt

REX BEACH

CATALOG OF STUDENTS

1939—1940

FOURTH YEAR CLASS

- Abbott, Robert Philadelphia, Pa.
4 yrs., Susquehanna University
- Arons, Henry Philadelphia, Pa.
B.S., St. Joseph's College
- Baldwin, William, Jr. Philadelphia, Pa.
B.A., Wesleyan University
M.A., Wesleyan University
- Berman, Sherwood Philadelphia, Pa.
3½ yrs., Temple University
- Blumenthal, Herman Philadelphia, Pa.
1 yr. College Credit—Pennsylvania Equivalent
- Blumstein, Samuel Philadelphia, Pa.
1 yr., Philadelphia College of Pharmacy
- Bond, Richard Drexel Hill, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Bower, Laurence Mt. Ranier, Md.
B.S., University of Maryland
- Caplan, Herman Philadelphia, Pa.
A.B., Temple University
- Chalmers, Charles Auburn Me.
A.B., Bowdoin College
- Croushore, Paul Bethlehem, Pa.
1 yr., Muhlenberg College
- Cutler, Philip Philadelphia, Pa.
5 yrs., Temple University
- Davis, Edward Lewiston, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- DeWeese, Byrne Kent, Ohio
A.B., Kent State University
- Dubin, Fred Philadelphia, Pa.
2 yrs., Temple University
1 yr., University of Pennsylvania
- Dunkelberger, Roy Elizabethtown, Pa.
1 yr., Elizabethtown College
- Enck, Paul S. Harrisburg, Pa.
1 yr., University of Pennsylvania
1 yr., Lebanon Valley College
1 yr., Kirksville College of Osteopathy
- Erickson, Wilbert E. Orange, N. J.
B.S., University of Vermont
- Feldman, Israel Philadelphia, Pa.
Ph.G., Philadelphia College of Pharmacy

- Flack, John Philadelphia, Pa.
1 yr., Philadelphia Pre-Osteopathic
School
- Gerber, Arnold Philadelphia, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Goldstein, Maurice Philadelphia, Pa.
5 yrs., University of Pennsylvania
- Green, Harold Elizabeth, N. J.
1 yr., Lebanon Valley College
3 yrs., Dartmouth College
- Greene, Charles Perth Amboy, N. J.
B.S., in Pharmacy, Alabama Polytechnic
Institute
- Gregory, Wallace Latrobe, Pa.
3 yrs., Philadelphia College of Pharmacy
- Hassett, Margaret Philadelphia, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Hodgson, David Fairport, N. Y.
B.S., Norwich University
- Hoffman, Betty Bernardsville, N. J.
1 yr., Philadelphia Pre-Osteopathic School
- Kent Lester Magnolia, N. J.,
1 yr., Philadelphia Pre-Osteopathic School
- King, Kenneth Hershey, Pa.
2 yrs., Lebanon Valley College
- Knoop, Carl Providence, R. I.
B.S., Providence College
- Krasney, Harry Philadelphia, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Kuptsow, Rubin Philadelphia, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Leech, John Narbeth, Pa.
1 yr., Philadelphia College of Pharmacy
- Long, Freeman Knox, Pa.
1 yr., Grove City College
- Lyman, Kermit Philadelphia, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Lyons, Alexander Indiana, Pa.
1 yr. College Credit—Pennsylvania Equiv-
alent
- Mellott, Elizabeth Philadelphia, Pa.
1 yr. College Credit—Pennsylvania Equiv-
alent
- Morganstein, Jacob Philadelphia, Pa.
3 yrs., Temple University
- Morris, William, Jr. Philadelphia, Pa.
B.S., Villanova College
2 yrs., Jefferson Medical College
- Olson, John Rochester, Pa.
1 yr., Geneva College
- Perry, Henry Englewood, N. J.
1 yr., Philadelphia Pre-Osteopathic School
- Petri, Harry Upper Darby, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Pollara, William Brooklyn, N. Y.
A.B., Ohio State University
- Ranelle, Hugo New York, N. Y.
A.B., Oberlin College
- Roscoe, Robert Cleveland Heights, Ohio
2 yrs., Virginia Military Institute
A.B., Adelbert College
- Rowe, Wesley, Jr. Norristown, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Russo, James Tom's River, N. J.
B.S., Ursinus College
- Shaw, Robert E. Bradford, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Sheetz, John Philadelphia, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Shultz, Walter Hanover, Pa.
1 yr., Gettysburg College
- Siegel, Julius Keansburg, N. J.
B.S., Rutgers University
- Slotoroff, George Atlantic City, N. J.
B.S., Franklin and Marshall
- Spence, W. C., Jr. Goldsboro, N. C.
4 yrs., Duke University
- Stiegelman, Keanneard York, Pa.
1 yr., Philadelphia Pre-Osteopathic School
- Styles, Albert Dayton, Ohio
B.S., St. Lawrence University
- Thorp, Walter Winburne, Pa.
2 yrs., Juniata College
- Tibbetts, Edward Warren, Mass.
1 yr., Philadelphia Pre-Osteopathic School
- Vinn, Joseph Bronx, N. Y.
B.S., Long Island University
- Weiner, Harold Irvington, N. J.
B.S., Muhlenberg College
- White, Edward Charlotte, N. C.
2 yrs., Elon College
- Woodley, Loren Beach Lake, Pa.
1 yr., Philadelphia Pre-Osteopathic School.

THIRD YEAR CLASS

- Anne, Frederick, Jr. Philadelphia, Pa.
3 yrs., University of Pennsylvania
- Breitman, Harry Philadelphia, Pa.
2 yrs., Temple School of Pharmacy
1 yr., St. Joseph's College
- Brimfield, Charles Hammonton, N. J.
2 yrs., Maryville College
- Brown, Robert Belleville, N. J.
2 yrs., Rutgers College
- Claus, Anton Philadelphia, Pa.
2 yrs., University of Pennsylvania
1 yr., Temple University
- Cohen, Leon Trenton, N. J.
B.A., West Virginia University
- Cohen, Louis Chatham, N. J.
A.B., Montclair State Teachers' College
A.M., Montclair State Teachers' College
- Cornelius, John Bethlehem, Pa.
B.A., Lehigh University
- Costa, Charles Newark, N. J.
B.S., Northwestern University
- Cragg, David Philadelphia, Pa.
B.S., Villanova College
- Errico, Emil Philadelphia, Pa.
A.B., Bucknell University
- Ginsberg, Benjamin Chelsea, Mass.
A.B., University of Arkansas
- Greenspan, Sidney Philadelphia, Pa.
2 yrs., LaSalle College
- Greenwald, Morton Philadelphia, Pa.
A.B., University of Pennsylvania
- Hedson, Lee Philadelphia, Pa.
3 yrs., Temple University
- King, Raymond Summit, N. J.
1 yr., Drew University
2 yrs., University of North Carolina
- Kochman, Harry Philadelphia, Pa.
3 yrs., Temple University
- Lasser, Leon Caldwell, N. J.
A.B., Elon College
- Lazin, Norman Philadelphia, Pa.
B.S., Lebanon Valley College
- Leibowitz, Nathaniel Philadelphia, Pa.
2 yrs., Temple University

- Lottenberg, Louis. Brooklyn, N. Y.
1 yr., New York University
4 yrs., Washington Square College
- Manieri, George. Philadelphia, Pa.
5½ yrs., University of Pennsylvania
- Mathews, Albert. Pontiac, Mich.
2 yrs., Albion College
- Meli, Anthony. Jersey City, N. J.
B.S., Villanova College
- Meminger, Howard. Altoona, Pa.
3 yrs., Bucknell University
- Moyer, Doris E. Stanford, Conn.
1 yr., Phila. Pre-Osteopathic School
- Pessin, Louis. Philadelphia, Pa.
B.A., Temple University
- Plone, Bernard. Barrington, N. J.
A.B., University of Pennsylvania
- Poster, Charles. Philadelphia, Pa.
B.A., University of Pennsylvania
- Price, Alexander. Camden, N. J.
B.A., University of Pennsylvania
- Ramsey, Harold. Billings, Mont.
3 yrs., Montana State College
1 yr., Bernarr McFadden Institute
- Ranney, Don. Cuyahoga Falls, Ohio
B.A., Kent State University
- Reynolds, William. Philadelphia, Pa.
B.S., Temple Medical School
- Reiber, William A. Elkins Park Pa
1 yr., Temple University
1 yr., Philadelphia Pre-Osteopathic School
- Robinson, Lloyd. Daytona Beach, Fla.
2 yrs., Stetson University
- Scher, Robert. Brooklyn, N. Y.
Ph.G., Brooklyn College of Pharmacy
- Schultz, Gustave. Blackwood, N. J.
B.S., Villanova College
- Schultz, Howard C. Atlanta, Ga.
2 yrs., Emory University
1 yr., Georgia Tech. Institute
- Schwartz, Jay. Collingswood, N. J.
A.B., Temple University
- Seacord, Kenneth. Hendersonville, N. C.
Ph.B., Sheffield Science School
- Siekierka, Israel. Philadelphia, Pa.
2 yrs., University of Petrograd
1 yr., University of Vilna, Poland
- Silk, Daniel. Philadelphia, Pa.
3 yrs., Temple University
- Silverman, David. Brooklyn, N. Y.
1 yr., St. John's University
1 yr., New York University
- Steinberg, Herbert. Philadelphia, Pa.
B.A., University of Pennsylvania
- Swenson, Warren. Philadelphia, Pa.
2 yrs., Lehigh University
- Terry, Philip, Jr. Scituate, Mass.
2 yrs., University of Maine
- Ulsnski, Glenn. Philadelphia, Pa.
A.B., Temple University
- Wagner, Hubert. Philadelphia, Pa.
A.B., Temple University

SECOND YEAR CLASS

- Aiken, Joseph. Cleveland, Ohio
B.S., University of Pittsburgh
- Alvarado, Miguel. Aguiore, Puerto Rico
2 yrs., University of Puerto Rico
3 yrs., University of Kansas
1 yr., Temple Graduate School
- Arends, Norman W. Highland Park, Mich.
1 yr., University of Detroit
1 yr., Highland Park Junior College
- Baches, Murray J. Trenton, N. J.
A.B., Lafayette College
2 yrs., University of Pennsylvania
- Blacksmith, William, Jr. Mechanicsburg, Pa.
B.S., Dickinson College
- Bond, Daniel. Upper Darby, Pa.
A.B., Temple University
- Bradford, Spencer. Philadelphia, Pa.
2 yrs., Temple University
- Brammick, Paul. Philadelphia, Pa.
2 yrs., Philadelphia College of Pharmacy
and Science
- Brint, Samuel. Philadelphia, Pa.
3 yrs., Temple University
- Calder, Joseph. Maplewood, N. J.
B.S., St. Lawrence University
1½ yrs., Columbia University
- Colfer, William, Jr. Rowayton, Conn.
2 yrs., New York University
- Conover, Roberta. Trenton, N. J.
2 yrs., Wooster College
- Corbin, Aileen. Grafton, W. Va.
A.B., Temple University
- Court, George. Glen Head, L. I., N. Y.
2 yrs., Duke University
- Court, Nancy. Glen Head, L. I., N. Y.
2 yrs., Salem College
- DeNise, Richard. Springfield, Ohio
2 yrs., Ohio State University
- Donohue, J. Ford. Jenkintown, Pa.
2 yrs., LaSalle College
- Dorman, Stanley. Philadelphia, Pa.
A.B., Temple University
- Evans, Olwen. Waynesboro, Pa.
B.S., Penn State College
- Feinstein, Aaron. Philadelphia, Pa.
2 yrs., Temple University
3 yrs., St. Joseph's College
- Fisher, Samuel. Philadelphia, Pa.
B.S., Penn State College
- Fliegelman, Emanuel. Philadelphia, Pa.
B.S., St. Joseph's College
- Flom, Esther. Harrisburg, Pa.
B.S., Lebanon Valley College
- Freedman, Edward. Philadelphia, Pa.
A.B., Temple University
- Furey, Joseph. Philadelphia, Pa.
2 yrs., St. Joseph's College
- Ginsler, Harry. Philadelphia, Pa.
3 yrs., St. Joseph's College
- Glass, Arthur M. Delair, N. J.
B.A., Temple University
1 yr., University of Pennsylvania
- Goldman, Robert. Utica, N. Y.
1 yr., Connecticut State College
2 yrs., Franklin and Marshall College
- Goodman Beryl. Ardmore, Pa.
2 yrs., Ursinus College
2 yrs., Temple University
- Gordon, Norman. Harrisburg, Pa.
B.S., Penn State College
- Guberman, Abe. Newark, N. J.
B.A., New York University
- Heyman, Jack. Brooklyn, N. Y.
3 yrs., Brooklyn College
- Hiestand, Richard M. Lancaster, Pa.
B.S., Franklin and Marshall College

- Holbrook, Walter Randolph, Mass.
 A.B., Colby College
 Holroyd, Edward Drexel Hill, Pa.
 2 yrs., Philadelphia College of Pharmacy
 and Science
 Kechijian, Keaim Providence, R. I.
 B.S., Rhode Island State College
 Kelch, John, Jr. Baldwin, L. I., N. Y.
 1 yr., New York University
 3 yrs., University of Kentucky
 Kirk, Chester Harrisburg, Pa.
 2 yrs., Gettysburg College
 Klukosovsky, Andrew Clifton, N. J.
 B.S., Georgetown University
 Krawczuk, Alexander Slickville, Pa.
 3 yrs., University of Pittsburgh
 Krueger, Viola Flushing, N. Y.
 B.S., Keuka College
 LaBove, Bernard Haddonfield, N. J.
 A.B., University of Pennsylvania
 LaRocca, Anthony Philadelphia, Pa.
 B.S., St. Joseph's College
 Legnosky, John Newark, N. J.
 A.B., Ohio State University
 Levin, Norton Philadelphia, Pa.
 A.B., Temple University
 McDonald, Charles Dansville, N. Y.
 2 yrs., Springfield College
 Massad, George Akron, Ohio
 4 yrs., Akron University
 Mazerski, Alexander Philadelphia, Pa.
 A.B., St. Joseph's College
 Mertens, Ronald Delmar, N. Y.
 2 yrs., Trinity College
 1 yr., Rensselaer Polytechnic Institute
 Meserole, Arch. New York, N. Y.
 1 yr., College of William and Mary
 1 yr., University of North Carolina
 Miller, James K. Harrisburg, Pa.
 2 yrs., Dickinson College
 Miller, P. Frank, Jr. Philadelphia, Pa.
 2 yrs., Temple University
 Moskow, Herbert Philadelphia, Pa.
 A.B., Temple University
 Neece, Clastine Philadelphia, Pa.
 Ph.G., Philadelphia College of Pharmacy
 and Science
 3 yrs., Temple University
 Nein, Daniel Lancaster, Pa.
 2 yrs., Franklin and Marshall College
 Nolf, Harold Brackenridge, Pa.
 2 yrs., University of Pittsburgh
 Norton, Charles W. Trenton, N. J.
 2 yrs., Wooster College
 Parker, Norman Hartsdale, N. Y.
 A.B., New York University
 1 yr., Columbia University
 Purvis, Robert Brookline, Pa.
 B.S., Penn State College
 Rabinowitz, Harold Scranton, Pa.
 B.S., St. Thomas College
 Rudner, Murray Detroit, Mich.
 B.S., Wayne University
 Sacks, Irving Carbondale, Pa.
 B.S., St. Thomas College
 Sarama, Edward Philadelphia, Pa.
 B.S., St. Joseph's College
 Simon, Leon Detroit, Mich.
 4 yrs., Wayne University
 Sinnett, John, Jr. Greenwich, Conn.
 2 yrs., Springfield College
 Smeyne, Leon Lebanon, Pa.
 2 yrs., Lebanon Valley College
 Stancliff, Richard Erie, Pa.
 2 yrs., Grove City College
 Steele, Virginia Hazleton, Pa.
 2 yrs., Bucknell Junior College
 Tretta, Nicholas Philadelphia, Pa.
 B.S., Villanova College
 Tropea, Salvatore Delair, N. J.
 2 yrs., Philadelphia College of Pharmacy
 and Science
 Weinberg, Herbert Camden, N. J.
 3 yrs., University of Pennsylvania
 Weiner, Albert Philadelphia, Pa.
 2 yrs., Temple University
 Wolfenstein, Philip Brooklyn, N. Y.
 1 yr., College of the City of New York
 2 yrs., Washington Square University
 Womble, Robert, Jr. Lemoyne, Pa.
 B.A., University of Virginia
 Yocum, Dale Lebanon, Pa.
 2 yrs., Lebanon Valley College
 Zink, George B. Drexel Hill, Pa.
 2 yrs., University of Pennsylvania
 Zlotkin, Louis Freehold, N. J.
 B.S., Bucknell University

FIRST YEAR CLASS

- Adams, Kenneth Longmeadow, Mass.
 2 yrs., Trinity College
 Adickes, Edward J. Ozone Park, L. I., N. Y.
 3 yrs., Long Island University
 Barlow, Alfred M. Huntington, W. Va.
 3 yrs., Marshall College
 Bell, Harold A. Elmhurst, N. Y.
 2 yrs., New York University
 Bernstein, Marshall I. Bridgeport, Conn.
 B.A., Yale University
 Birch, John M. Utica, N. Y.
 4 yrs., Hamilton College
 Broecker, Bernhard L. Ardmore, Pa.
 2 yrs., Temple University
 Bowdle, Andrew C. Dover, Del.
 B.S., Westchester Teachers College.
 M.A., Columbia University
 Cassett, Martin C. Camden, N. J.
 A.B., Washington and Lee University
 Connelly, Joseph W. Bellefontaine, Ohio
 2 yrs., Ohio State University
 DeCristo, Dominic R. Collingdale, Pa.
 B.S., Villanova College
 Dietz, Raymond E. Harrisburg, Pa.
 3 yrs., University of Pittsburgh
 Donovan, Joseph W. Binghamton, N. Y.
 B.S., Manhattan College
 Fisher, William H. Reading, Pa.
 1 yr., Rensselaer Polytechnic Institute
 2 yrs., Albright College
 Fishman, Irving Brooklyn, N. Y.
 1 yr., Brooklyn College
 2 yrs., College of the City of New York
 Ford, Daniel I. Washington, N. J.
 B.S., Springfield College
 Friedman, A. Karl Philadelphia, Pa.
 A.B., Temple University
 Goldberg, Samuel New Haven, Conn.
 B.A., Yale University
 Goldstein, Raymond Brooklyn, N. Y.
 B.A., New York University
 M.A., New York University

- Green, Elizabeth A.Yonkers, N. Y.
B.S., Cornell University
- Greenberg, Joseph L.Brooklyn, N. Y.
B.A., Brooklyn College
- Guyer, Samuel.Weissport, Pa.
A.B., University of Pennsylvania
- Hammel, Raymond H.Reading, Pa.
B.S., Pennsylvania State College
- Harris, Cecil J.Philadelphia, Pa.
2 yrs., University of Pennsylvania
- Hemmer, Charles A.Syracuse, N. Y.
A.B., Syracuse University
- Henry, Clyde C.Hackettstown, N. J.
3 yrs., Brothers College
- Henry, H. Gordon.Oak Lane, Phila., Pa.
2 yrs., Temple University
- Herskowitz, Morton S.Philadelphia, Pa.
B.A., Temple University
- Herzlin, Frank.Bronx, N. Y.
1 yr., College of City of New York
2 yrs., New York University
- Hirsch, Jack A.Detroit, Mich.
B.A., Wayne University
- Hunt, Ransom W.Arlington, Mass.
1 yr., Ohio State College
1 yr., Massachusetts State College
- Israel, Raymond G.York, Pa.
2 yrs., Franklin and Marshall
- Jannelli, Anthony S.Philadelphia, Pa.
A.B., LaSalle College
- Jendryk, Anne.Elkins Park, Pa.
A.B., Beaver College
1 yr., Temple University
- Johnson, Robert H.Cleveland, Ohio
A.B., Hiram College
- Kantor, Nathan B.E. Orange, N. J.
2 yrs., St. John's College
- Katz, Harry.Philadelphia, Pa.
2 yrs., LaSalle College
- Kette, Albert C., Jr.Dayton, Ohio
3 yrs., Miami University
- Kietur, Stanley S.Queens Village, L. I., N. Y.
B.A., University of Alabama
- Klein, Carl.Bayonne, N. J.
B.A., New York University
- Kohn, Max M.Detroit, Mich.
B.S., Muhlenberg College
1 yr., University of Detroit
- Lombardi, John E.Dover, N. J.
B.S., Muhlenberg College
- Luther, Wesley C.Buffalo, N. Y.
5 yrs., University of Buffalo
- MacFarlane, Thomas M., Jr.Jamaica Plain, Mass.
A.B., Harvard University
- Mogul, Harvey N.Philadelphia, Pa.
2 yrs., Temple University
- Nathans, Sydney.Atlantic City, N. J.
A.B., University of Pennsylvania
- Nelson, Louis.Solvay, N. Y.
3 yrs., Niagara University
- Olitsky, Henry.Philadelphia, Pa.
A.B., Temple University
- Phillips, Donald I.Brooklyn, N. Y.
3 yrs., College of City of New York
- Rigano, Rudolph F.Philadelphia, Pa.
A.B., LaSalle College
- Rosenbaum, Samuel.Philadelphia, Pa.
B.A., Temple University
- Rubin, Morton.Philadelphia, Pa.
2 yrs., LaSalle College
- Satterthwaite, Thomas.Ambler, Pa.
B.S., Temple University
1 yr., University of Pennsylvania
- Scott, William.Philadelphia, Pa.
2 yrs., Temple University
- Shore, Harold.Philadelphia, Pa.
4 yrs., Temple University
- Sill, George T., Jr.Allentown, Pa.
2 yrs., Muhlenberg College
- Smith, Robert J.Glenside, Pa.
2 yrs., Temple University
- Sokoloff, Nathan H.Philadelphia, Pa.
A.B., University of Pennsylvania
- Spector, Felix.Haddon Heights, N. J.
A.B., Temple University
- Spodobalski, Edward J.Philadelphia, Pa.
3 yrs., Temple University
- Swartz, Morton.Arlington, Mass.
B.S., Tufts College
- Todhunter, Melvin.Johnstown, Pa.
B.S., St. Francis College
- Tully, Basil.Maplewood, N. J.
3 yrs., Washington College
- Tully, John.Maplewood, N. J.
B.A., Upsala College
- Vigderman, D. Leonard.Philadelphia, Pa.
3½ yrs., Temple University
- Wallat, Paul F.Arlington, N. J.
B.S., Albright College

SUMMARY

Students in Senior Class.....	62
Students in Junior Class.....	48
Students in Sophomore Class.....	77
Students in Freshman Class.....	66
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	253

GEOGRAPHIC RECAPITULATION
1939-1940

Connecticut.....	5
Delaware.....	1
Florida.....	1
Georgia.....	1
Maine.....	1
Maryland.....	1
Massachusetts.....	8
Michigan.....	6
Montana.....	1
New Jersey.....	45
New York.....	32
North Carolina.....	3
Ohio.....	10
Pennsylvania.....	133
Rhode Island.....	2
West Virginia.....	2
Puerto Rico.....	1
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	253

PART VI

THE UNDERGRADUATE SCHOOL

Neurone Society

Athletic Association

Student Council

Societies

Publications

Alumni Association

NEURONE SOCIETY

THE Neurone Society is a scientific and social organization of the student body of the College. It was organized February 24, 1902. The declared objects of the society comprise the development of osteopathic organization, the promotion of interest in scientific subjects and the establishment of good fellowship among students. Meetings are held from time to time in the College and various topics are discussed followed by entertainment. Students become members automatically at the time of registration. The expenses incident to social program are defrayed from the Student Activity Fee.

ATHLETIC ASSOCIATION

The general control of athletic activities is placed in the hands of a Graduate Committee on Athletics. This graduate body determines the policy of the institution, subject to the approval of the Dean, and is charged with the responsibility of disbursing funds of the undergraduate association. The athletic program affords abundant opportunity for all students to take advantage of sports and regular exercises. There are intramural and interfraternity teams in basketball, track, swimming, tennis, golf, bowling and chess. Each student in the College is given Y. M. C. A. privileges, which entitle him to the use of gymnasium, swimming pool, locker, etc., the costs of which are defrayed from the general Student Activity Fee.

STUDENT COUNCIL

The welfare of the students in their relation to the College is in the hands of a Council consisting of the representatives of the four classes in the College, together with a Committee of the Faculty. The president of the organization is elected by the Student Council from the fourth-year class. Regular meetings are held throughout the year at which time appropriate topics are discussed. The Student Council expresses itself in matters affecting general student interests.

MUSICAL SOCIETY

This Society was organized in 1934 by members of the orchestra existing at that time. At present it consists of an orchestra and glee club under the leadership of Benjamin Sharlip. Membership is open to students and faculty members. The Society gives regular concerts and in addition renders special concerts for various occasions and meetings throughout the year.

PUBLIC SPEAKING SOCIETY

The value of public speaking has been recognized and a Public Speaking Society was organized as a consequence of a wide-spread response to a call for volunteers. The membership of this Society is open to all students inter-

ested in public speaking. Weekly meetings are held throughout the entire college year. At these meetings instruction and practice is afforded in the art of speaking before a group. The College maintains a speakers' bureau.

OTHER SOCIETIES

There are organizations of students from the various states to which they plan to return for practice after graduation, constituting so-called "Junior" societies. It is the aim of these societies to stimulate interest in the activities and problems of the respective State organizations and to encourage membership upon graduation. Other academic and social societies are the Neo-Honorary Society, the Newman Club, the Dig-on Society, the Obstetrical Society, the Neurological Society, Cardio-Vascular Society, the Gastro-enterological Society, the Bacteriological Society, the Urological Society, the Pediatrics Society and the Camera Club which organizations meet regularly to discuss diversified topics in their respective fields. A Junior Women's Osteopathic Society has been formed. All women students are members of this society. The wives of students have also been organized into a Student Wives' Association.

FRATERNITIES

The following fraternities maintain chapters at the Philadelphia College of Osteopathy: Atlas, Iota Tau Sigma, Lambda Omicron Gamma, Phi Sigma Gamma and Theta Psi.

An interfraternity council, consisting of representatives from each fraternity and the Associate Dean supervises and directs the affairs of common interest to these organizations. An agreement on matters of rushing and pledging has been operative for a number of years.

PUBLICATIONS

The COLLEGE CATALOG (announcement) is published in the month of June each year. The P. C. O. Bulletin is published at intervals.

The *Osteopathic Digest*—with Scientific Supplement—is a magazine published at intervals during the academic year by the College for its students and alumni.

The *Synopsis* is the College yearbook prepared by the Junior class.

ALUMNI ASSOCIATION**Officers for 1939-1940**

President—DR. M. LAWRENCE ELWELL, '20, Rochester, N. Y.

Executive Vice-President—DR. KARNIG TOMAJAN, '30, Boston, Mass.

Executive Vice-President—DR. MYFANWY EVANS, '25, Scranton, Pa.

Secretary—DR. HARRY C. HESSDORFER, '28, Philadelphia, Pa.

Treasurer—DR. GUY W. MERRYMAN, '30, Collingswood, N. J.

Directors at Large—DR. HOWARD B. HERDEG, '23, Buffalo, N. Y.;
DR. FREDERICK A. LONG, '24, Philadelphia, Pa.

Directors for Executive Committee—DR. STEPHEN B. GIBBS, '15,
Miami Beach, Fla.; DR. JAMES E. CHASTNEY, '24, Hackensack, N. J.
DR. CARLTON STREET, '24, Philadelphia, Pa.

Alumni Trustees—DR. R. MCFARLANE TILLEY, '23, Brooklyn, N. Y.;
DR. M. LAWRENCE ELWELL, '20, Rochester, N. Y.; DR. DONALD
B. THORBURN, '23, New York, N. Y.; DR. C. J. SNYDER, Philadelphia,
Pa.; DR. HERBERT V. HILLMAN, '15, New York, N. Y.; DR. IRA W.
DREW, '11, Philadelphia, Pa.; DR. HENRY S. LIEBERT, '27, Richmond,
Va.

Alumni District Representatives—DR. KARNIG TOMAJAN, '30, Boston,
Mass.; DR. M. LAWRENCE ELWELL, '20, Rochester, N. Y.; DR.
GEORGE JOHNSON, '36, Brooklyn, N. Y.; DR. JAMES E. CHASTNEY, '24,
Hackensack, N. J.; DR. R. WILLIAM CLOUGH, '35, Wildwood, N. J.;
DR. GEORGE B. STINEMAN, '32, Harrisburg, N. J.; DR. WILLIAM
BEHRINGER, '38, Allentown, Pa.; DR. CARLTON STREET, '24, Philadel-
phia, Pa.; DR. JOSEPH L. HAYES, '27, Philadelphia, Pa.; DR. HENRY
S. LIEBERT, '27, Richmond, Va.; DR. CHARLES J. KARIBO, '30, Detroit,
Mich.; DR. OSWALD B. DEITER, '27, London, Eng.

This Association of the graduates of the College was organized with the declared objects of promoting the interests and prosperity of the Philadelphia College of Osteopathy, of encouraging a high standard of osteopathic education, of perpetuating College memories, of offering prizes, of providing funds for chairs and laboratories and the endowment of beds in the Osteopathic Hospital of Philadelphia, of cultivating and maintaining good feeling among

the graduates and of advancing the interests of sound osteopathic knowledge. Membership in the Association is open to any graduate of the College in good professional standing who will notify the Secretary of his desire to join.

In March, 1936, an Alumni Office was established in the College as a center for all Alumni activities under the direction of the Executive Committee of the Association, through the President and Executive Secretary.

The Alumni Reunion Banquet is held the evening of Commencement Day. The Alumni Office endeavors to keep a biographical file of all Alumni and in general serves as an active place of contact between the College and the Alumni. The *Osteopathic Digest*, published at intervals by the College, is used as the medium of expression of news of the College to all of the Alumni.

In line with the effort of the Institution to obtain funds over and above tuitions and fees paid by students for the diversified needs of the College, the Alumni endorsed the Annual Giving Plan instituted in February, 1936. More than 500 members of the Association appear on the honor list as contributors to the Annual Giving Fund.

All graduates of the College not already enrolled are invited to write to the Alumni Office for an application for membership.

PART VII

THE GRADUATE SCHOOL

General Statement

Hospital and Clinical Facilities

Admission Requirements

Fees

Certificates

Fellowships

Announcement of Courses

Method of Making Application

THE GRADUATE SCHOOL

SESSION 1940-1941

GENERAL STATEMENT

THE Graduate School was announced June 3, 1933, as a unit of the Philadelphia College of Osteopathy, organized for the purpose of providing post-graduate instruction for osteopathic physicians, comprising as wide as possible a variety of courses for general practitioners and specialists in the field as well as for more recent graduates.

For the younger graduate its program comprehends regular full courses: (a) internship in the Osteopathic Hospital of Philadelphia, followed by residentship in practice of osteopathy and surgery; (b) basic science courses, involving vigorous training in single subjects, preparing for additional years of research study and teaching placements, and (c) basic clinical courses in major departments, leading to opportunity for further study in the selected specialistic fields.

For the physician of greater practical experience in the field the object is to provide post-graduate instruction of briefer periods covering the recent scientific advances in the practice of osteopathy, surgery and the specialties. Special Courses, Personal Courses, Clinical Courses, Combined Courses, Review Courses, Polyclinic Courses, Courses Leading to the Specialties, Extension Courses characterize the range of possible opportunities to be considered for suitably qualified practitioners. *It is, however, no part of the premise of the Graduate School to attempt to meet all demands of osteopathic physicians for graduate education.* Its express aim is to furnish opportunities as they exist, or as they arise, for an individual or small group to be received and placed in well-organized programs. In no case will privilege be accorded or contract be entered upon where the request is calculated by the school authorities to be subversive to the interests of the fundamental plan. Furthermore, it is to be understood that the School makes no bid for any but properly qualified and serious-minded students. The right is reserved by the School to refuse, without particulars, matriculation to all applicants whom it deems ineligible and to limit, at its discretion, the number of physicians in the courses offered.

CLINICAL AND LABORATORY FACILITIES

The city of Philadelphia, renowned as the medical center of the country, offers a wealth of clinical material seeking the ministrations of the distinctive school of osteopathy.

The Philadelphia College of Osteopathy and Hospital is one of the most modern and thoroughly equipped institutions of its kind. Patients of all descriptions are received and treated in its wards and clinics, taxing their capacities to the limit. During the year 1939 a total of 2,911 in-patients were cared for in the Hospital of 90-bed capacity. The departments represented in the hospital service are osteopathy, surgery, obstetrics, gynecology, otolaryngology and ophthalmology, pediatrics, neurology, dermatology, urology, proctology, gastroenterology, radiology, bronchoscopy, pathology, anaesthesiology. This conveys some idea of the wide variety of cases presented for instruction. The Out-Patient Department, to which approximately 50,000 patients' visits were made in 1939, provides unlimited material for the physician and research student. There are twenty-three special clinics organized to take care of all types of ambulant cases and to deal with particular research problems. The varied and extensive character of the cases offered is an important factor in the teaching program for the general practitioner, who has only a brief period in which to profit by all the opportunities available. The laboratories of the Hospital and the Dispensary provide abundant opportunity for teaching and research in all the fundamental subjects. A heart station for the making of electrocardiograms is accessibly placed in the Hospital for student instruction purposes. Most modern and complete x-ray equipment makes possible demonstration of its use in diagnosis and treatment. In the operating rooms, in the wards of the Hospital and in the out-clinics, students come in direct contact with cases, so that they may apply what they have learned while attending the institution. There is perfect coordination between the different Hospital and College units as each laboratory, pre-clinical and clinical section extends through the College, Hospital and Dispensary as one unit under the direction of a single sectional head.

ADMISSION REQUIREMENTS

1. The courses in the Graduate School are open only to physicians who have received the degree of Doctor of Osteopathy from osteopathic colleges considered acceptable to the Bureau of Colleges of the American Osteopathic Association.

2. Prime requirement is membership in the American Osteopathic Association; and membership in one of the constituent state or divisional associations of the American Osteopathic Association; in the case of a physician who has not engaged in practice, recommendation as to moral character by the osteopathic school from which his degree was received and from the hospital, if any, wherein his internship was pursued.

Physicians who have been refused admission to, or continuation in any osteopathic society or licensure, on ethical grounds, are ineligible.

3. Physicians who desire to enroll in special and personal courses in which a certain degree of specialized skill is prerequisite, will be admitted only after evaluation of credentials demonstrating their fitness for the work in the specified department.

METHOD OF MAKING APPLICATION

Application for admission to the Graduate School should furnish the following data: (a) Character of course desired and when; (b) name of college from which graduated and year of graduation; (c) when and where hospital internship, if any, was pursued; (d) licensed to practice in what States; (e) if engaged in practice, where and how long; (f) character of practice, general or special; (g) membership in osteopathic organizations.

FEES

The matriculation fee is \$10.00, and is required when a student enters the Graduate School. No further matriculation fee is required for transfer from one type of course to another, or for readmission from year to year.

The tuition fee in the Graduate School regular full courses, comprising (1) uniformly \$400.00. There are no additional or auxiliary fees or charges.

The tuition fees for special, personal and allied courses vary according to the character of the work, the length of time, the actual cost to the College and Hospital for clinical material, and whether the benefit is essentially to the student alone. The effort, however, will be to make the fee as low as is consistent with the securing of sound instruction. Announcement is made, therefore, of fees for unit courses only. The fees for special and personal courses will be worked out with applicants at the time requests are received and honored.

CERTIFICATES

Certificates will be awarded only to students who have pursued approved systematic courses of study lasting at least eight months. In the special and personal courses, statements of attendance will be issued to matriculants who have received regular instruction and who have passed examinations creditably.

FELLOWSHIPS

Certain fellowships have been arranged for from the resources of the institution, and it is the further plan of the administrators to endeavor to raise endowments for this purpose. Fellowships will be the basis, especially for

osteopathic science and research studies. The policy of the Graduate School will be to encourage young graduates to undertake such work under the support of fellowships looking to the stimulus of scientific investigation to carry them far into their fields, and eventually to important teaching and professional careers.

ANNOUNCEMENT OF COURSES

1940-1941

Regular Courses

1. **INTERNSHIPS.** The regulations of the Staff of the Osteopathic Hospital of Philadelphia provide for annual appointments as follows: One chief resident physician, two senior resident interns and eight junior resident interns. Selection of first-year interns is made on a basis of competitive examinations given in the spring each year. Appointments are for a period of one year commencing July 1st. Rotations of services are made to include assignments to osteopathy, surgery, obstetrics, pathology, Out-Patient Department, Operating Room, Emergency Room. Second- and third-year placements are made for meritorious work rendered during the first and second years' previous service, and with a view to qualifying the students for the practice of major surgery. (All appointments for the year beginning July 1, 1940 have been filled, and no applications for future consideration will be received until February 1, 1941).

2. **BASIC SCIENCE COURSES.** Five major science departments under present arrangements offer full-year (8-months) courses. These departments are: anatomy, physiology, pathology, chemistry, bacteriology. The advanced and research work will be specially arranged for each student. No combination of courses will be permitted. To obtain the greatest advantage from advanced courses, the student should be prepared to devote practically all his time to it.

3. **BASIC CLINICAL COURSES.** The major clinical departments offering opportunities for full-year instruction to graduate students are: clinical osteopathy, surgery, obstetrics, gynecology, radiology, urology, osteopathic technique, osteopathic principles and research, pediatrics, surgery. In each clinical department the number of admissions will be limited within the bounds of the department's facilities and regulations. Each registration is for graduate work in a single well-defined subject of clinical specialization. No combination or conjoining of courses will be permitted.

Special and Personal Courses

Certain of the science and clinical departments are organized and prepared

to offer, at dates to be determined, opportunities in various sub-departmental topics. The very nature of conceivable demands of graduate physicians for advanced instruction forbids listing of all preclinical and clinical subjects in which courses may be offered. Any such attempts at a systematic announcement of courses would be speculative at best, and subversive to the fundamental policy of the educational plan which premises high-class, well-rounded instruction in any offering whatever. Hence requests as they are received from physicians desiring special opportunities will be carefully analyzed from the standpoints of availability of qualified instructors, facilities, equipment and like considerations before permission in any case is accorded. As departments find themselves in a position to provide definite unit courses or briefer special courses, announcement will be made of their provisions, requirements, regulations, dates, fees, etc.

Special Course for New Jersey Physicians

In accordance with the provisions contained in Chapter 226, P. L. 1935, State of New Jersey, which amends the Medical Practice Act of that State to provide for the licensing of osteopathic physicians by examination until 1941, and repeals the osteopathic law, those holding osteopathic licenses may pursue an approved post-graduate course of two years in an approved school of osteopathy.

The Philadelphia College of Osteopathy made application to the Board of Medical Examiners requesting that the institution be recognized as an approved school of osteopathy. Following inspection of the College and Hospital, approval for the purpose of Section 4, Paragraph C, of the Medical Practice Act was given as of September 1, 1935.

The post-graduate course, as approved by the Board, consists of instruction in practice, surgery, pediatrics, obstetrics and gynecology, pathology, pharmacology, radiology and certain elective subjects, in approximately the same proportion of hours as is set forth in the curriculum for an approved college of medicine or osteopathy. Each post-graduate year consists of approximately 1,000 hours of instruction.

The first class was matriculated as of October 9, 1935, and each succeeding year other classes have followed. The tuition fee is \$320.00 per annum. Applicants must meet the full terms of the Admission Requirements set down for graduate students (q. v.) and bear the endorsement of the New Jersey Osteopathic Society, Inc.

A FIFTH YEAR—AN APPROVED GRADUATE COURSE FOR N. J. STUDENTS

Matriculants who desire to qualify for practice in the State of New Jersey henceforth will be required to pursue (a) an internship for one year in a

hospital approved by the New Jersey State of Medical Examiners or in lieu thereof to pursue (b) an approved course of post-graduate study for one year.

The Osteopathic Hospital of Philadelphia and, the Philadelphia College of Osteopathy have been approved as teaching institutions by the New Jersey State Board of Medical Examiners.

There will be offered, beginning September 23, 1940, a nine months' course consisting of five and one-half days' work each week, comprising a minimum of thirty hours' instruction each week. The primary object of the course will be to provide broad, well-balanced and scientifically practical instruction in surgery, internal medicine and clinical laboratory work. Although chief emphasis will be laid upon these major divisions, the course will be so designed as to give at the same time a collateral treatment of the fundamental sciences, in order that their relationships to clinical problems will be kept in view. The course in clinical medicine will be largely practical. The conference method of instruction will prevail. Every effort will be made to give the student physicians ample opportunity for individual study of patients. During the course stress will be laid upon the various divisions of internal medicine, as gastroenterology, cardiology, neurology, dermatology, therapy, chemotherapy, electrotherapeutics, etc. Instruction in clinical surgery will be both in its general aspects and in its correlation with the surgical specialties of gynecology, urology, orthopedics, neurosurgery, thoracic surgery, etc.

THE GRADUATE SCHOOL

REGISTER OF SPECIAL STUDENTS

SESSION 1939-1940

SECOND YEAR CLASS

Archbold, Le Roy (ASO '21)	Paterson, N. J.	Hess, Alfred B. (PCO '28)	Bergenfield, N. J.
Anderson, Edwin (PCO '25)	Trenton, N. J.	Hollstein, William (PCO '38)	Westfield, N. J.
Bailey, Hannah (CCO '35)	Hasbrouck Heights, N. J.	LaBove, Norman (PCO '38)	Haddonfield, N. J.
Battaglino, Charles (PCO '37)	Camden, N. J.	Laidman, H. A. (PCO '37)	Glen Rock, N. Y.
Beaven, J. Mahlon (KCOS '28)	Ridgewood, N. J.	Livingston, Theodore (PCO '38)	Vineland, N. J.
Bonham, Paul (PCO '35)	Irvington, N. J.	Loeffler, Arthur (KCOS '38)	Whippany, N. J.
Brown, Donald (PCO '28)	Belleville, N. J.	Markert, Charles (KCOS '38)	Ridgefield Park, N. J.
Burget, Richard (PCO '32)	Mount Holly, N. J.	May, George (.....)	Plainfield, N. J.
Burrows, Charles (PCO '35)	Trenton, N. J.	McSpirit, J. Raymond (PCO '29)	Jersey City, N. J.
Butterworth, Crawford (PCO '35)	Upper Montclair, N. J.	Peters, Gordon (KCOS '30)	Cranford, N. J.
Carney, William (KCOS '27)	Bridgeport, N. J.	Potter, C. W. (ASO '21)	Passaic, N. J.
Chertkoff, M. B. (PCO '36)	Collingswood, N. J.	Robertson, Harold (ATS '24)	Madison, N. J.
Christian, Donald (PCO '38)	East Orange, N. J.	Rosa, Anthony (PCO '38)	New York, N. Y.
Craver, Lloyd (PCO '34)	Passaic, N. J.	Sewall, Norman (KCOS '31)	Bloomfield, N. J.
Donovan, D. P. (PCO '26)	Bayonne, N. J.	Talmage, Norman (PCO '32)	Lakewood, N. J.
Fasnacht, Walter (PCO '24)	Cranford, N. J.	Vander Mark, Homer (KCOS '38)	Woodbury, N. J.
Feige, Richard (KCOS '31)	East Orange, N. J.	Waddel, Harold (PCO '38)	Oradell, N. J.
Fischer, Frederick (KCOS '38)	East Orange, N. J.	Weinberger, Leon (PCO '37)	Camden, N. J.
Fox, Mildred (PCO '23)	Mount Holly, N. J.	Weiss, G. Woldemar (KCOS '36)	Montclair, N. J.
Fox, Morris (PCO '38)	Atlantic City, N. J.	Wilson, William (PCO '32)	Ridgewood, N. J.
Goorley, Lois (PCO '24)	Trenton, N. J.		
Hahne, Richard (ASO '25)	Maplewood, N. J.		

FIRST YEAR CLASS

Ackley, Calvin B. (KCOS '28)	Union City, N. J.	Moore, Jonathan (PCO '39)	Bridgeton, N. J.
Bagnall, Victor H. (KCOS '39)	Tenafly, N. J.	Northup, George W. (PCO '39)	Madison, N. J.
Barnes, Robert D. (PCO '37)	Plainfield, N. J.	Palmaffy, Henry (KCOS '39)	South Orange, N. J.
Barrows, Mervyn E. (PCO '39)	Conshohocken, Pa.	Rudnick, J. B. (KCOS '39)	Keyport, N. J.
Berger, Theodore J. (PCO '25)	Nutley, N. J.	Smith, A. Robert (PCO '39)	River Edge, N. J.
Frost, Vincent M., Jr. (KCOS '39)	Linden, N. J.	Spilatore, L. W. (KCOS '38)	Union, N. J.
Harkins, Daniel J. (PCO '39)	Roselle Park, N. J.	Topping, Brewster E. (PCO '38)	Summit, N. J.
Hart, Herbert L. (ASO '26)	Irvington, N. J.	Walker, Elvin E. (PCO '37)	Stratford, N. J.
Herrmann, Charles A. (PCO '35)	Elizabeth, N. J.	Weber, Herbert (ASO '23)	East Orange, N. J.
Lippincott, Rebecca C. (PCO '23)	Moorestown, N. J.	Wever, Robert B. (PCO '39)	Trenton, N. J.
Lulick, Mary A. (PCO '37)	Philadelphia, Pa.	Williams, Crill M. (PCO '37)	Linden, N. J.
		Williams, George S. (PCO '37)	Ramsey, N. J.
		Wilson, Patrick D. ()	Clifton, N. J.

PART VIII

THE SCHOOL OF NURSING

General Statement

Advantages and Facilities

Living Quarters

Expenses

Requirements for Graduation

Plan of Instruction

Register of Students

SCHOOL OF NURSING

MARGARET C. PEELER, PH.B., R.N., Director of Nursing

HELEN M. STERRETT, R.N., Educational Director

THE School of Nursing of the Osteopathic Hospital of Philadelphia was established in 1919, and since its organization has been an integral part of the institution. The School is officially recognized in the State of Pennsylvania, having been accredited by the Board of Registration of Nurses in April, 1931.

The Executive Committee of the School of Nursing is composed of the Dean of the College, the Director of the School of Nursing, the Superintendent of the Hospital and representatives from the Lay Board of Directors and from the Hospital Staff.

The Hospital Staff are all members of the College Faculty, and the students in the school receive the benefit arising from instruction under these trained teachers.

ADVANTAGES AND FACILITIES

The Osteopathic Hospital has a splendidly appointed modern building with a capacity of 115 beds. There are medical and surgical wards for both adults and children with gynecological, obstetrical, urological, orthopedic, ear, eye, nose and throat and other special services. There are four floors: one for osteopathic and medical cases, one for obstetrical cases, and one for surgical cases, while part of the fourth is devoted to quarters for the School of Nursing, comprising class and demonstration room and laboratories. On each of the main floors are private rooms, semi-private rooms and wards, all equipped with modern conveniences. The Out-Patient Department is well-equipped and complete in all aspects. The operating rooms, X-ray, and diet kitchens afford exceptional opportunities.

All departments of the hospital are open to the students for instruction, and each one is given her course of experience in them, as the requirements of the institution permit.

In addition to service in the Osteopathic Hospital the student nurse spends a period of six months during her training in the Philadelphia General Hospital, where she receives her necessary instruction and experience in medical diseases and pediatrics.

LIVING QUARTERS

The Nurses' Homes, 4515-17-19 Spruce Street, are located two blocks from the Hospital. They are large, light and airy buildings, with all modern conveniences and comforts, having living rooms on the first floor comfortably furnished for the entertainment of friends.

REQUIREMENTS FOR ADMISSION

Students are admitted to classes in September of each year. Candidates wishing to obtain the course of instruction must fill in a blank form in their own handwriting, and also send a written statement of their educational qualifications.

A four-year academic high school course or its educational equivalent is essential. The applicant's credits must be evaluated as 16 units by the Pennsylvania Department of Public Instruction. Pre-entrance intelligence, aptitude and physical examinations are required before the Director of Nursing is able to decide as to her acceptability.

Applicants must be at least eighteen, and not over thirty years of age.

ACCEPTANCE INTO THE SCHOOL

At the close of the preliminary term of 6 months, each student taking the course who has successfully passed the required examinations and who has given satisfaction in all other respects, will be accepted as a student in the School of Nursing.

EXPENSES

The student nurses receive board, living and a reasonable amount of laundry from the date of entrance. An initial deposit of \$100 is required of each student on the day of admission to pay for the textbooks, uniforms, aprons, bibs, shoes, nurses' outdoor cape, etc., necessary for the first year. A breakage fee of \$5.00 and a pre-entrance examination fee of \$5.00 are additional. The expenses for the second and third years amount to approximately \$50 each.

GRADUATION

A course of three years of study and experience, including the pre-clinical period of six months and six months' affiliation with the Philadelphia General Hospital, is required for graduation. After graduation, nurses are eligible for State Board examinations for the degree of Registered Nurse (R.N.).

GENERAL PLAN OF INSTRUCTION

This course of instruction covers a period of three years.

FIRST YEAR

FIRST SEMESTER

Principles and Practice of Nursing, including
Personal Hygiene and Hospital House-
keeping
Anatomy and Physiology
Microbiology
Chemistry
History of Nursing
Professional Adjustments I
Bandaging
Elementary Dietetics
Psychology
Elementary Principles of Massage

Medical Specialties
Communicable Diseases
Tuberculosis
Venereal Diseases
Emergencies

Specialties

Eye
Ear
Nose and Throat
Oral

Pediatric Nursing and Infant Feeding
Orthopedics
Obstetrics

SECOND SEMESTER

Materia Medica
Medical Nursing
Surgical Nursing
Pathology

SECOND YEAR

Diet in Disease
Surgical Specialties
Gynecology
Genito-Urinary
Operating Room Technique
Emergencies

THIRD YEAR

Mental and Nervous Diseases
Public Sanitation
Professional Adjustments II
Sociology

During this year students affiliate with the Philadelphia General Hospital for Pediatric and Medical service.

All nurses graduating from the Osteopathic Hospital of Philadelphia, receive more than the required number of hours of instruction. The educational program is one of the finest in the State of Pennsylvania.

SCHOOL OF NURSING

GRADUATES—SEPTEMBER, 1939

Andrews, Elizabeth.....	Carbondale, Pa.	Smith, Marjorie.....	E. Lansdowne, Pa.
Carlen, Martha.....	Doylestown, Pa.	Swords, Frances.....	Columbia, Pa.
Crumb, Elizabeth.....	Cleveland, O.	Thompson, Sally.....	Germantown, Pa.
Dickson, Eva.....	Bradford, Pa.	Tschudy, Grace.....	Lebanon, Pa.
Elmer, Georgianna.....	Wickford, R. I.	Volk, Sara.....	Wilmington, Del.
Kinsel, Myrtle.....	McVeytown, Pa.	Webster, Elsie.....	Lansdowne, Pa.
O'Neill, Alice.....	Trenton, N. J.	Whitaker, Berta.....	McConnellsville, O.
Rogers, Jean.....	Oshkosh, Wis.	Wood, Arliff.....	Allendale, N. J.
Smith, Evelyn.....	Freeport, L. I., N. Y.		

GEOGRAPHIC RECAPITULATION

Delaware.....	1
New Jersey.....	2
New York.....	1
Ohio.....	2
Pennsylvania.....	9
Rhode Island.....	1
Wisconsin.....	1

17

REGISTER OF STUDENTS

1939—1940

SENIORS

Antonides, Alicia.....	Bergenfield, N. J.	Furey, Elizabeth.....	Philadelphia, Pa.
Bingham, Linda.....	Fitchberg, Mass.	Gripenkerl, Louise.....	Philadelphia, Pa.
Cohalan, Louise.....	Philadelphia, Pa.	Kletzel, Gertrude.....	Philadelphia, Pa.
Cyphers, Constance.....	Cleveland, O.	Laws, Ethel.....	Philadelphia, Pa.
		Von Bosse, Elsie.....	Philadelphia, Pa.

INTERMEDIATES

Arbegast, Dorothy	Palmyra, Pa.
Bergen, Phyllis	Teaneck, N. J.
Byers, Helen	Lampeter, Pa.
Brown, Clara	Harrisville, Pa.
Dakin, Jean	Sabina, Ohio
Griffin, Georgina	Villanova, Pa.
Heerdegen, Ruth	Honesdale, Pa.
Kefford, Vera	Lewistown, Pa.
Knaub, Margaret	Hagerstown, Md.
Martin, Sara	Marietta, Pa.
Miller, Edith	Peach Bottom, Pa.
Miller, Janice	Glenolden, Pa.
Piper, Marion	Rochester, N. Y.
Ralph, Janet	Stone Harbor, N. J.
Reese, Jeannette	Glenolden, Pa.
Snelson, Irene	Palmyra, N. J.
Waterhouse, Jane	Philadelphia, Pa.

JUNIORS

Bendall, Beatrice	Philadelphia, Pa.
Brehm, Ruth	Springfield, Pa.
Charlet, Frances	Kewanee, Ill.
Covert, Jeanne	Norwood, Pa.
Gonder, Hilda	Lititz, Pa.
Hahn, Marion	Manheim, Pa.
Johnson, Kathryn	Woodstown, N. J.
Jones, Margaret	Tupper Lake, N. Y.
Loosely, Carrie Ann	Upper Darby, Pa.
O'Daniel, Jane	Philadelphia, Pa.
Pontz, Margaret	Lancaster, Pa.
Schumann, Dorothy	Philadelphia, Pa.
Shank, Alice	Columbia, Pa.
Sponga, Geraldine	Lansdowne, Pa.

GEOGRAPHIC RECAPITULATION

Illinois	1
Maryland	1
Massachusetts	1
New Jersey	5
New York	2
Ohio	2
Pennsylvania	28
	<hr/>
	40

GIFTS AND BEQUESTS

Gifts and bequests of money, securities or real estate are gratefully received by the Philadelphia College of Osteopathy and the Osteopathic Hospital of Philadelphia. Should you or anyone with whom you are in contact be interested in a bequest to these institutions the following legal forms may be used:

1. "I give and bequeath to Philadelphia College of Osteopathy, of Philadelphia, Pa., a corporation of the State of New Jersey, for its Permanent Endowment Fund, the Sum of \$.....dollars."
2. "I give and bequeath to Osteopathic Hospital of Philadelphia, at Philadelphia, Pa., the sum of \$.....dollars (or all that certain piece of real estate), to be used for its general corporate purposes (or for such specific purpose as donor may select)."





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